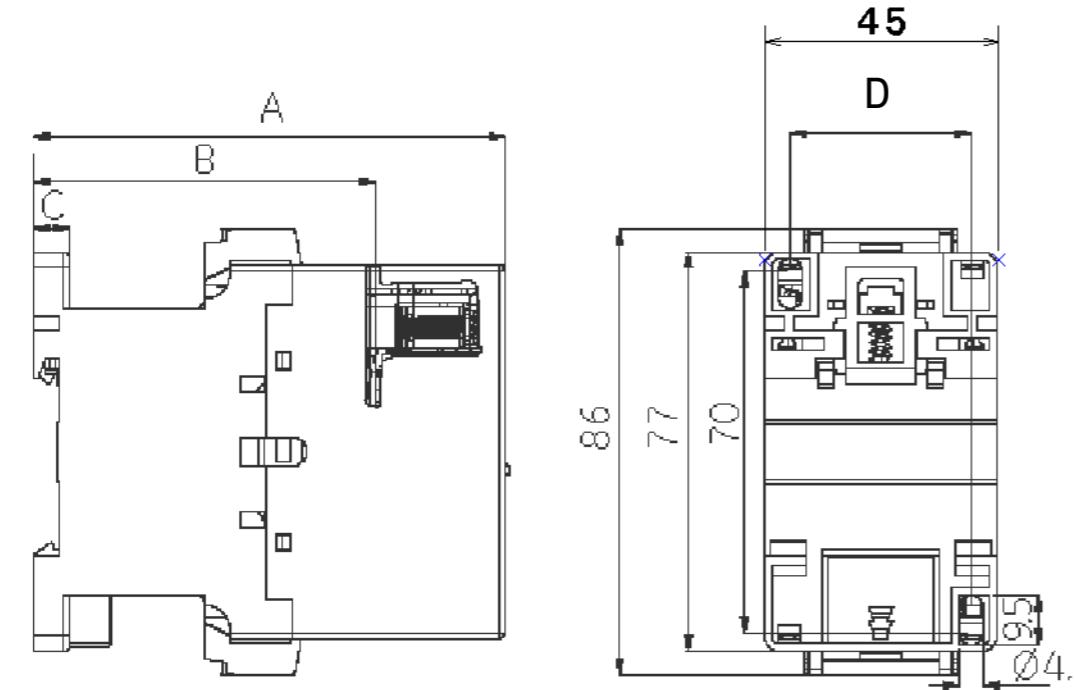


È vietato consegnare a terzi o riprodurre questo documento, utilizzarne il contenuto o renderlo comunque noto a terzi senza esplicita autorizzazione. Ogni infrazione comporta il risarcimento dei danni subiti. Sono riservati tutti i diritti derivanti dalla concessione di brevetti per invenzioni industriali di utilità o di brevetti per modelli ornamentali.

Taladros montaje en placa: 35x70 y Ø4,5
(2 tornillos en la diagonal)

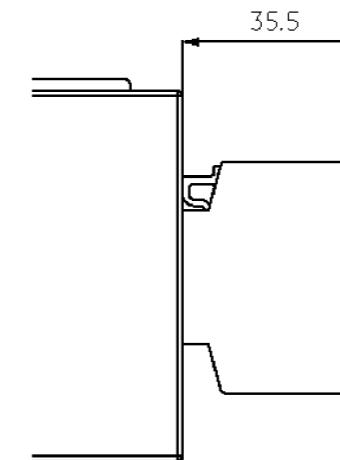


01 02

03

04

05



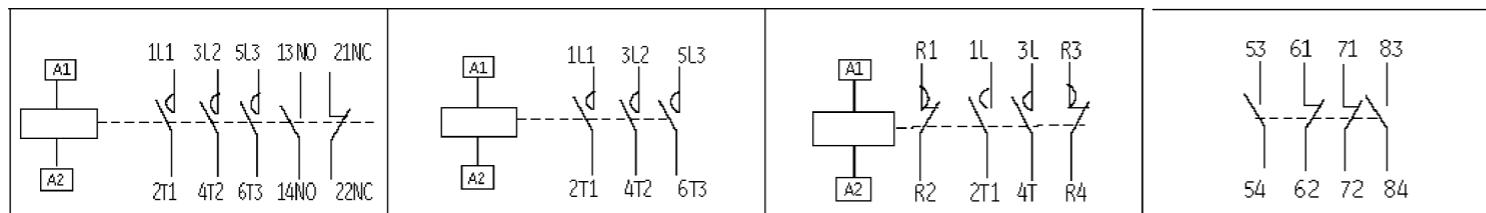
Dimensiones en mm	EC09D3-EC18D3	EC32D3-EC40D3	EC12DB
A	102	115	96
B	76,2	81,2	66
C	7	7	7
D	35	35	30,6
Peso en g	620	740	650

01 02

03

04

05



CONEXIONES ELECTRICAS

MARCA MARCA	DESCRIPCIÓN DESCRIZIONE	CANT. QUANT.	CÓDIGO O NORMA CÓDICE O NORMA	MATERIAL O REFERENCIA MATERIALE O REFERENZA	PESO PESO	DIMENSIONES DIMENSIONES
					(Kg)	(mm)
05	CONTACTO FRONTAL AUXILIAR 2NO+2NC CONTATTO AUSILIARIO FRONTALE 2NO+2NC	1	X.69.00177.02 ECFA 422S	GE 268883	0.074	
04	CONTACTOR 12A-24VCC CONTATTORE 12A-24VCC	1	X.69.00175.21 EC12DB00B024W	GE 267348	0.650	2P+2R
03	CONTACTOR 40A-24VCC CONTATTORE 40A-24VCC	1	X.69.00175.09 EC40D300B024W	GE 267161	0.740	3P
02	CONTACTOR 25A-24VCC CONTATTORE 25A-24VCC	1	X.69.00175.05 EC25D311B024W	GE 267131	0.620	3P+1NA+1NC
01	CONTACTOR 12A-24VCC CONTATTORE 12A-24VCC	1	X.69.00175.01 EC12D311B024W	GE 267101	0.620	3P+1NA+1NC

LOCOMOTIVA E401		0.000	A3	BEASAIN	OT	Y					
A ANADIR DATASHEETS		2016-06-28 12199	ISO 2768-ck		CAF						
B ANADIR DATASHEETS		2016-07-26 96015	DIN ISO 13920-BF		Power & Automation						
C ANADIR DATASHEETS		2016-09-27 96015									
Ed.	Descrizione	Date	Nome								
X:X	Disegnato	20/05/2015	10221								
	Comprovato	20/05/2015	12199								
	Verificato	20/05/2015	14422								
	Date	Nome									
	es/it										
CAF		CONTACTORES EFFICOR GENERAL ELECTRIC									
		CONTATTORI EFFICOR GENERAL ELECTRIC									
		B . 20 . 71 . 143									
		C									
		1 / 77									

New



efficor™

New contactors & starter combinations
for demanding applications



GE imagination at work

Efficor™ - A new dimension in global contactors

Advantages and Benefits

- A.2 Introduction
- A.4 Space saving
- A.6 Time saving
- A.8 Secure connection
- A.10 Stock saving
- A.11 Energy efficiency design

Advantages and Benefits

- A.13 Direct online starter
- A.14 Reversing starter
- A.16 Star delta starter

Order codes

Technical data

Numerical index

A

B

C

X

efficor™



High installation benefits

- Smart, various wiring and connectivity technologies ... fast assembly of starter solutions
- Smallest product dimensions for panel design and motor control centers ... integrated auxiliary contacts in standard product
- Modular and compact motor starter solutions

Most reliable technology

- Standard materials for food & beverage and transportation purposes ... complying the latest rail standards
- Highest reliable product performance ... worldwide applications
- Energy efficient design ... ecological mindset

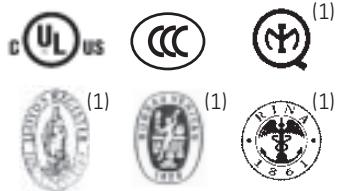
Best in class

- Optimized power per size
- Lowest number of stock keeping units ... reducing stock complexity for distributors, panelbuilders and OEM customers
- Full communication capabilities
- Outstanding range of power contactors and motor starter solutions ... including wide range of accessories

Standards

IEC/EN 60947-1
IEC/EN 60947-4-1
IEC/EN 60947-5-1
EN 50005
UL 508
CSA 22.2/14
VDE 0660/102

Approvals



(1) In progress

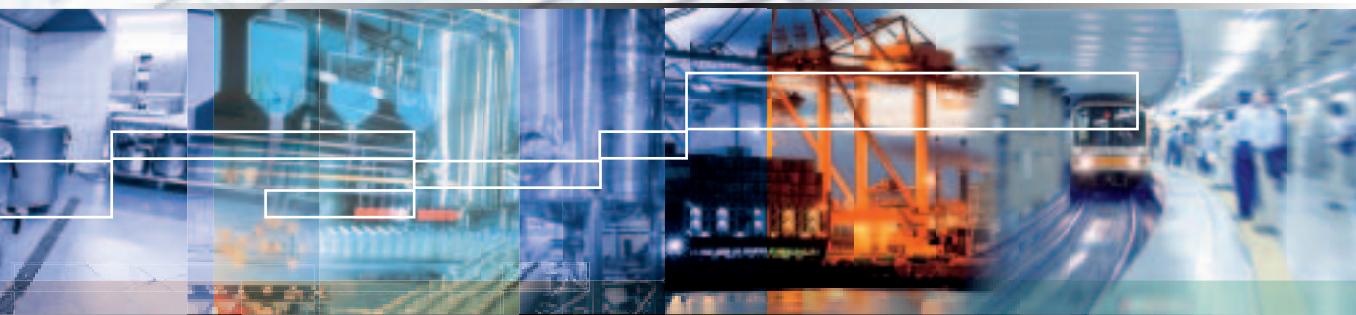


Main benefits

- Time saving
 - Space saving
 - Stock saving
 - Secure connection
 - Energy efficiency design
 - Reliable technology
 - Intelligent communication
 - Smart connecting
-
- Complete range including accessories
 - Full approval list
 - Attractive design



over efficient



A new dimension in global contactors

efficor™



Space saving

Compact starter

Significant space reduction in the cabinet: Compact starter either with thermal overload relay or manual motor starter.

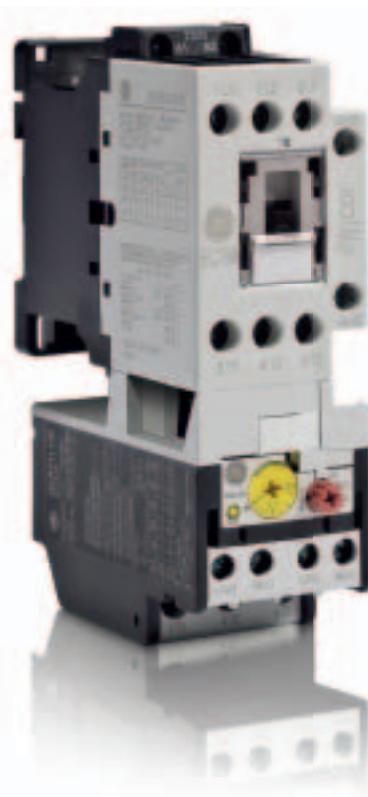
Starter mounting plates for friendly maintenance (easy removal of MMS Surion and/or contactor). Busbar systems and wiring kits allow safe cabling avoiding mistakes, guaranteeing finger safe protection up to 6kV.

Contactor with manual motor starter

Link module for compact starter
Full coil access at the bottom

Contactor with thermal overload relay

Uniformity in compact design
Thermal overload relay mounted direct to the contactor.
All connections available



Space saving: reduced depth

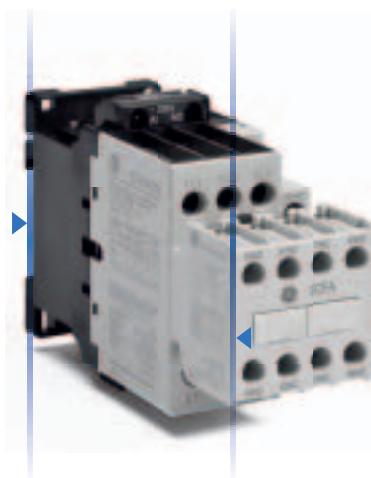
Compact DC contactor

New magnet design reducing the depth by 10%

Minimizing depth difference between AC and DC

10mm reduction up to 18A

14mm reduction up to 40A

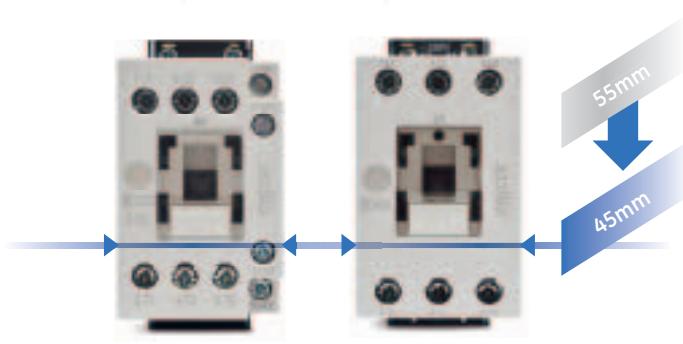


Space saving: reduced width

Best in class

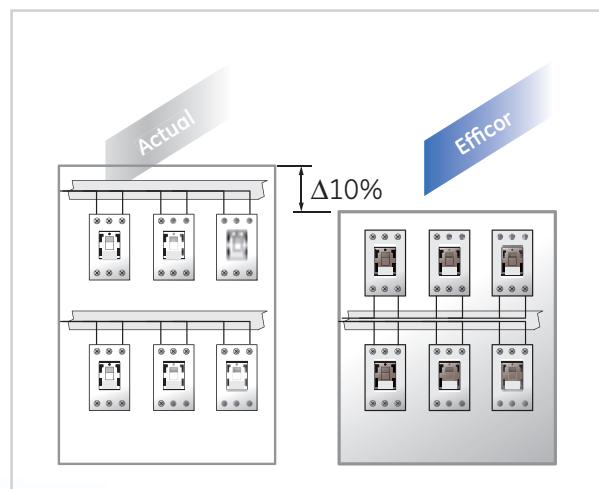
9 up to 40A series in 45mm width

2 auxiliary contacts built in up to 25A series



Space saving: top and bottom voltage supply

The voltage can be supplied on top or bottom of the device: 10% reduction in the height of the cabinet.



Benefits

A

B

C

X

efficor™



Time saving

Double box terminals

Identical torque (2,2 Nm) for 9A up to 40A contactors.
No need for different screwdrivers.

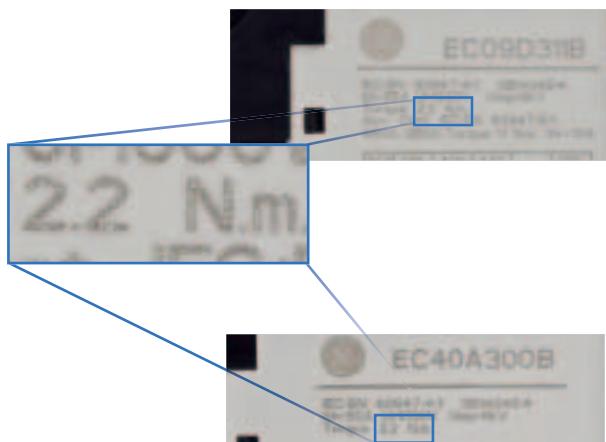
Global contactors

A

B

C

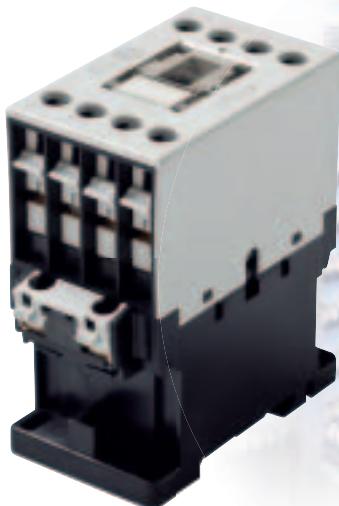
X



Ring terminals

- Power and coil
- Auxiliary contactors
- Accessories

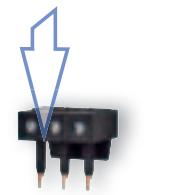
No need to open the device
in order to do ring wiring



No tools needed

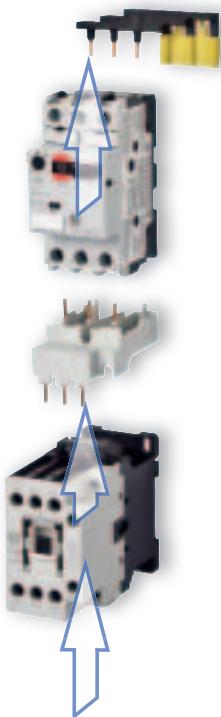
Mounting or dismounting the contactors on/from the DIN-rail can be done without tools.

Even for the mounting of accessories and auxiliaries to the contactor no tools are required.



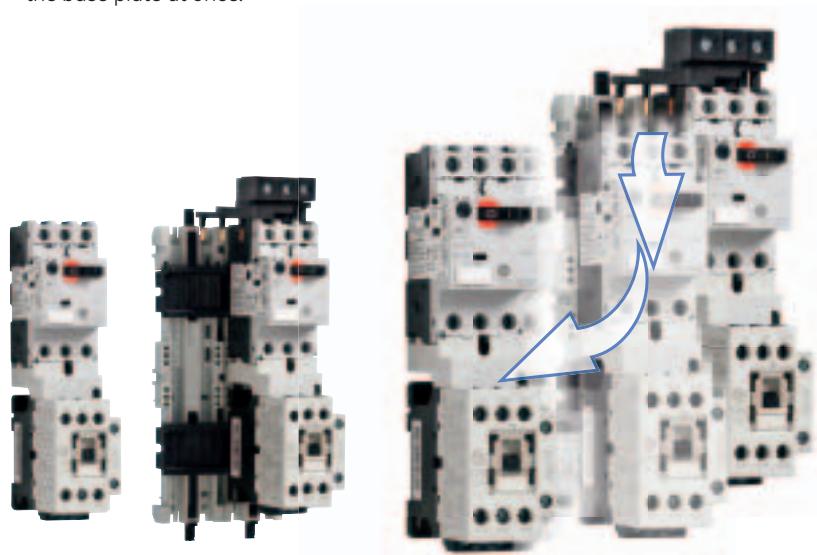
Quick assembly of direct online starter

- User friendly design of link modules and base plates to combine manual motor starter and contactor.
- Smart busbar systems and wiring kits.

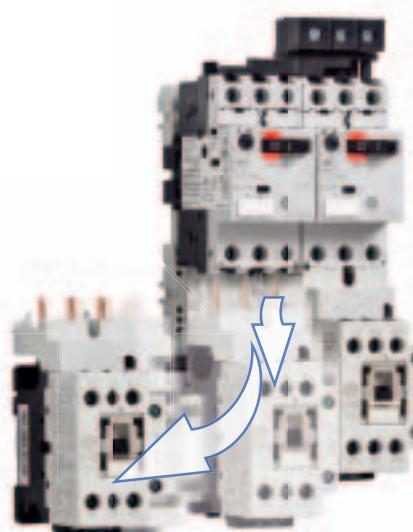


Easy maintenance of direct online starter

- The complete starter combination can be removed from the base plate at once.



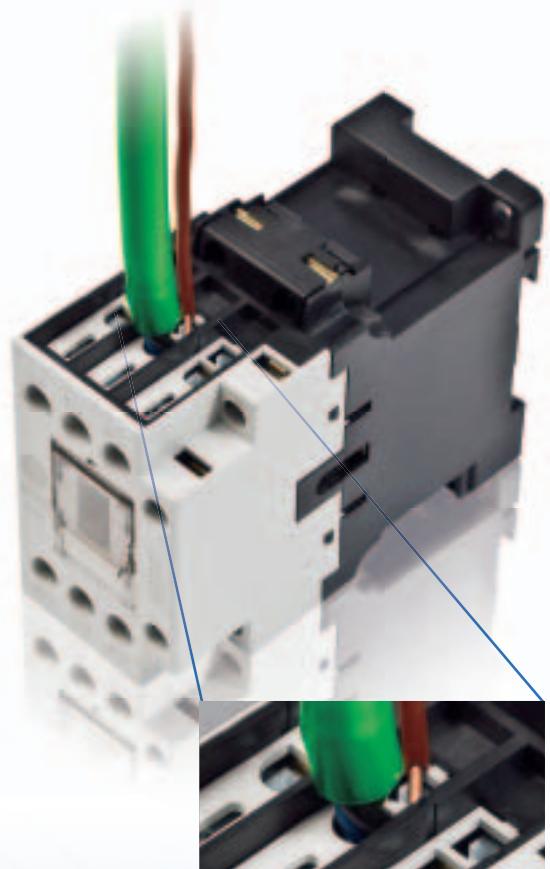
- The manual motor starter and the contactor can be removed separately from the base plate.



Secure connection

Double box terminals

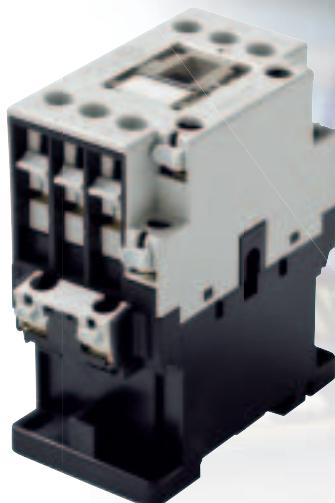
- Double box clamps for the whole range
- Cables from 0,75mm² up to 16mm² in the same box clamps
- terminal for 4kW up to 18,5kW.
- No risk for loosing cables
- Avoid temperature rising on the small cable



Ring terminals

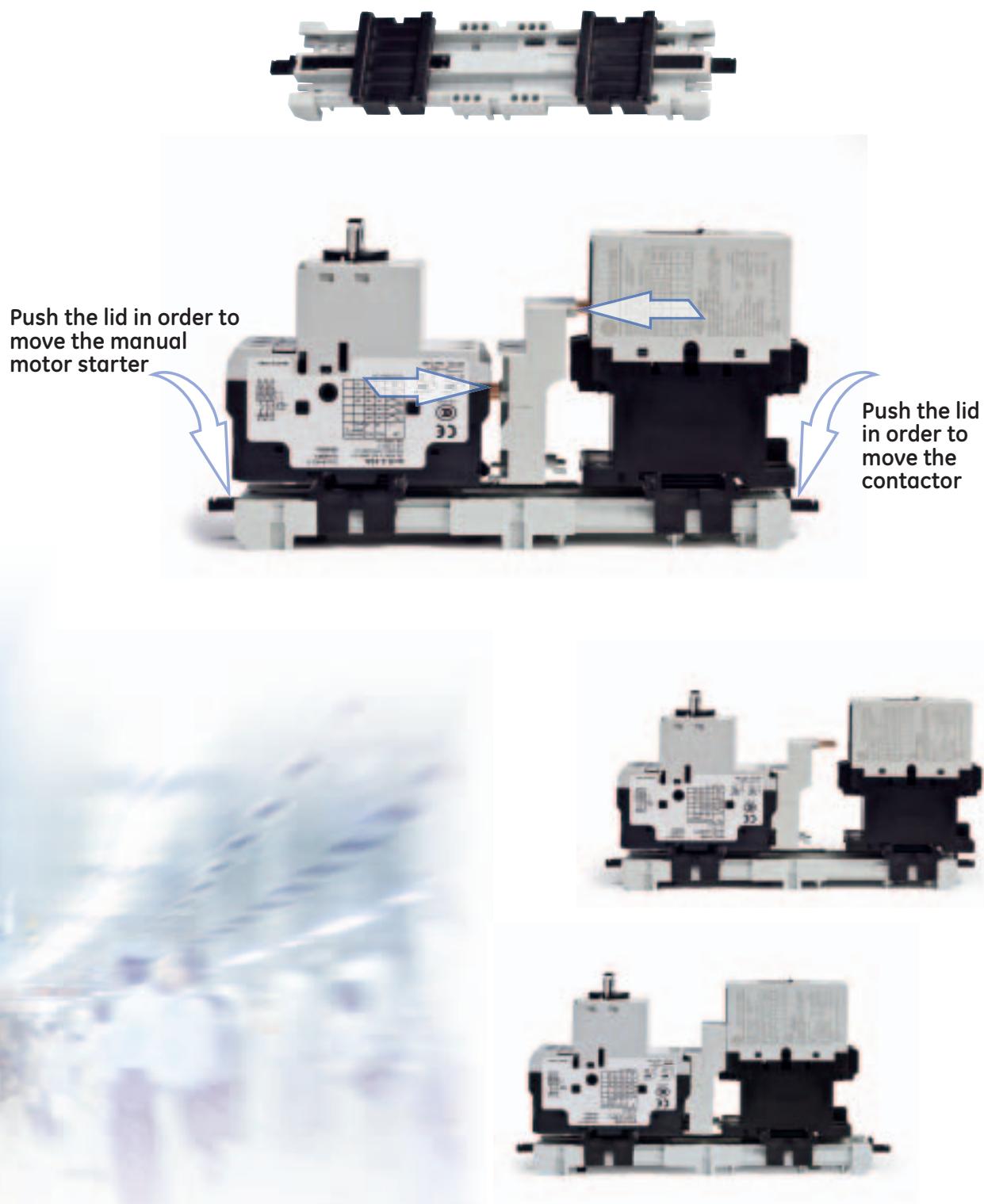
High vibration resistance

✓ Transportation market



Smart connectivity

- Design of intelligent base plate



Benefits

A

B

C

X

Stock saving

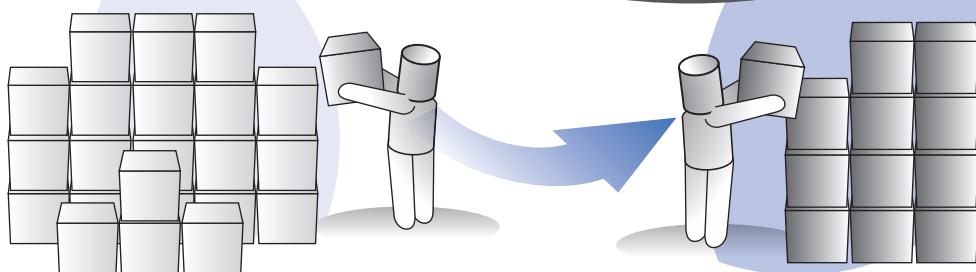
50% reduction in codes

Efficor range compared to the actual one means a significantly reduction of 50% in stock keeping units.

Due to:

- Built-in auxiliary contacts
- Bifrequency coils
- Safety plastic material (of railway applications) also used in standard products.

**50% reduction
in space and volume
in warehouses**



Easy identification

Self explanatory description of the catalogue number is an important advantage

Example: EC 09 A 3 11 B 230

EC: Means Efficor Contactor range

09: 9A in AC3 application

A: Type of control voltage

A stands for AC

D stands for DC

3: Number of main poles

3 stands for 3 poles

4 stands for 4 poles

B stands for 2NO + 2NC

11: Number of auxiliary contacts built-in 1NO and 1NC

B: Type of terminal

B stands for Box terminal

R stands for Ring terminal

230: Coil voltage

W: End character for DC contactors

W stands for Wide voltage and built-in diode

L stands for Low consumption



Energy efficiency

Low energy consumption

Optimized operating: The combination of electromagnet and permanent magnet, spring and coil ensures low energy consumption.

Coil energy saving device

Long life span

Increased technical performance results in less maintenance costs

Reduced flammability risk and lower toxicity

For demanding applications as lifts, appliances and transportation

Space reduction

Space saving: 14mm depth reduction up to 40A

More usable space for customer

The voltage can be supplied either on top or bottom of the device.

eco-design

Closed design

Offering full protection against pollution

- Transparent front cover for dust protection
- No holes in the base
 - Avoid dust and external particles
 - Enhances the life of the device
 - On/Off indication through carrier position

- ✓ Ceramic applications
- ✓ Heavy duty environments
- ✓ Environments with high pollution degrees

Reliable technology

Best electrical endurance

Electrical endurance > 1.7 million operations
AC3 category at rated current

Reliability data per standard EN ISO 13849

EC09 ... EC25 B10d - 1.5 mill/ops

EC32 ... EC40 B10d - 1.37 mill/ops

Widest temperature operation

from -40°C to +55°C

Suitable for extreme temperatures

Lowest noise production: 32dBA

Perfect answer to demanding applications like hospitals

Compliant with International standards for plastic parts

NF 16-101 & NF 16-102

DIN 5510.2 & EN 60355

Safe ecological plastic for all applications

Communication

Better maintenance and remote monitoring

Only one frame covering 9 up to 40A series

Three different depths

- Depth 1: 9A up to 18A
- Depth 2: 25A
- Depth 3: 32A up to 40A



efficor™



Stock saving

A

B

C

X

Main advantages

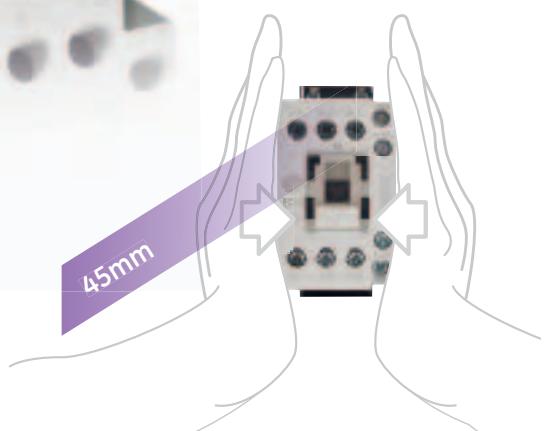
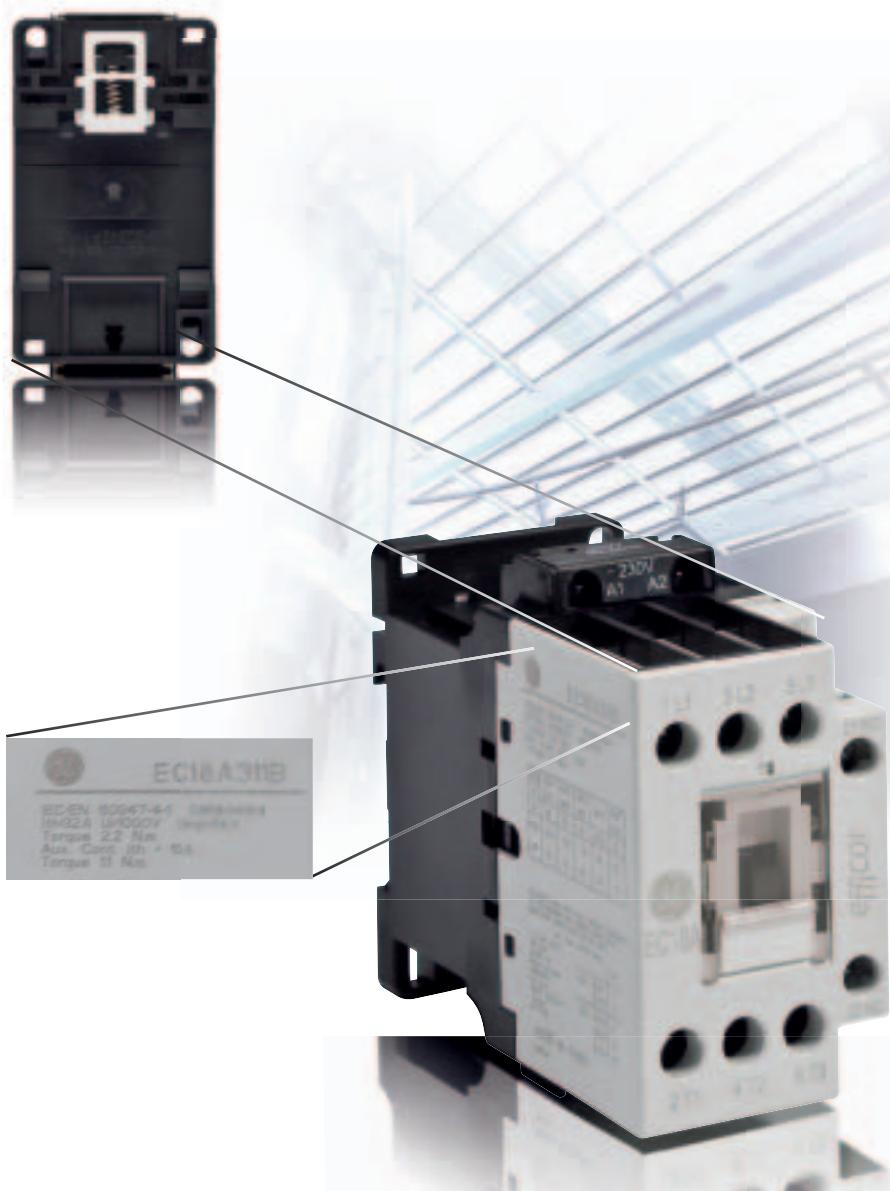
Global contactors

A

B

C

X



efficor™

Direct online starter

Direct online starter

A

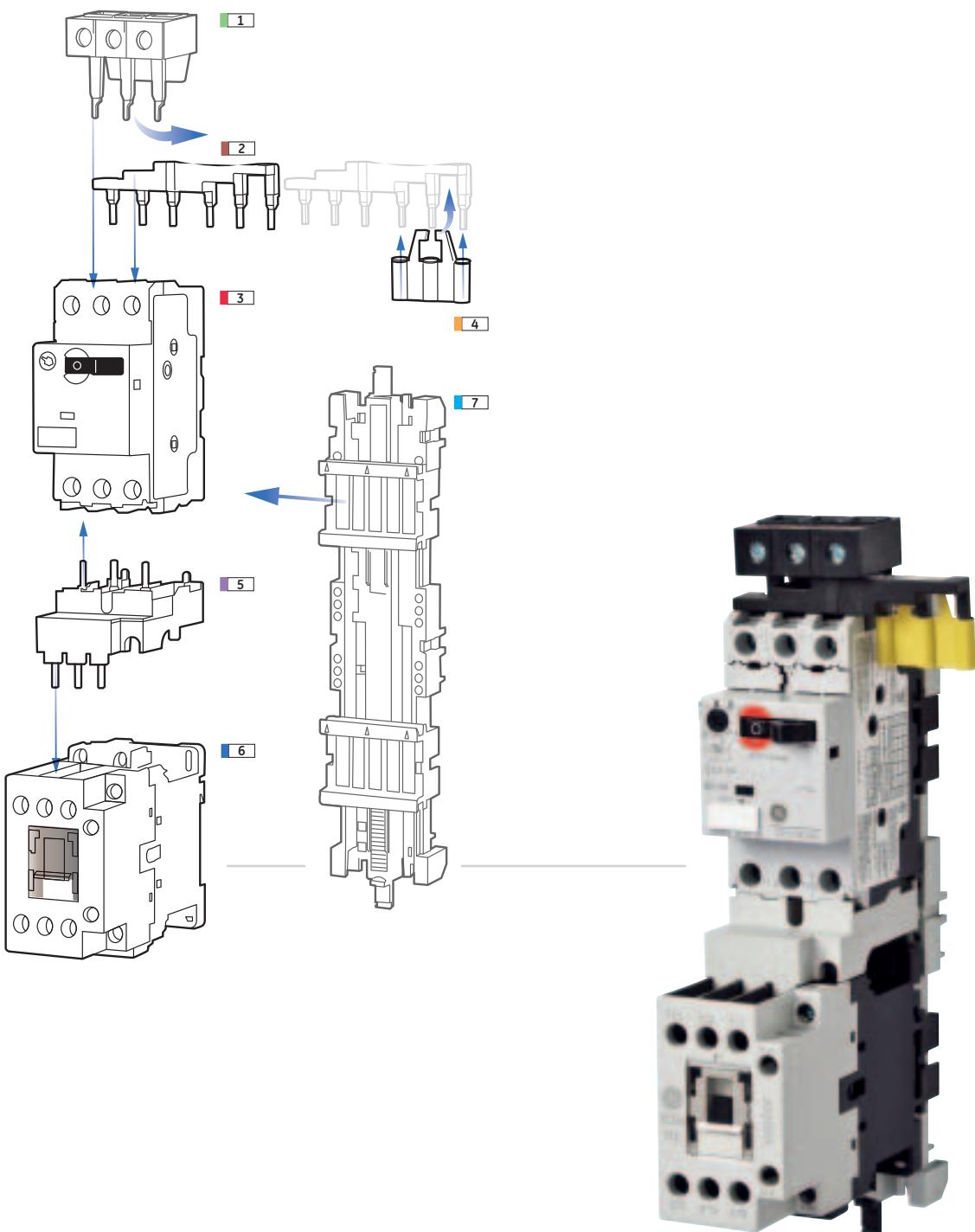
B

C

X

Connectivity

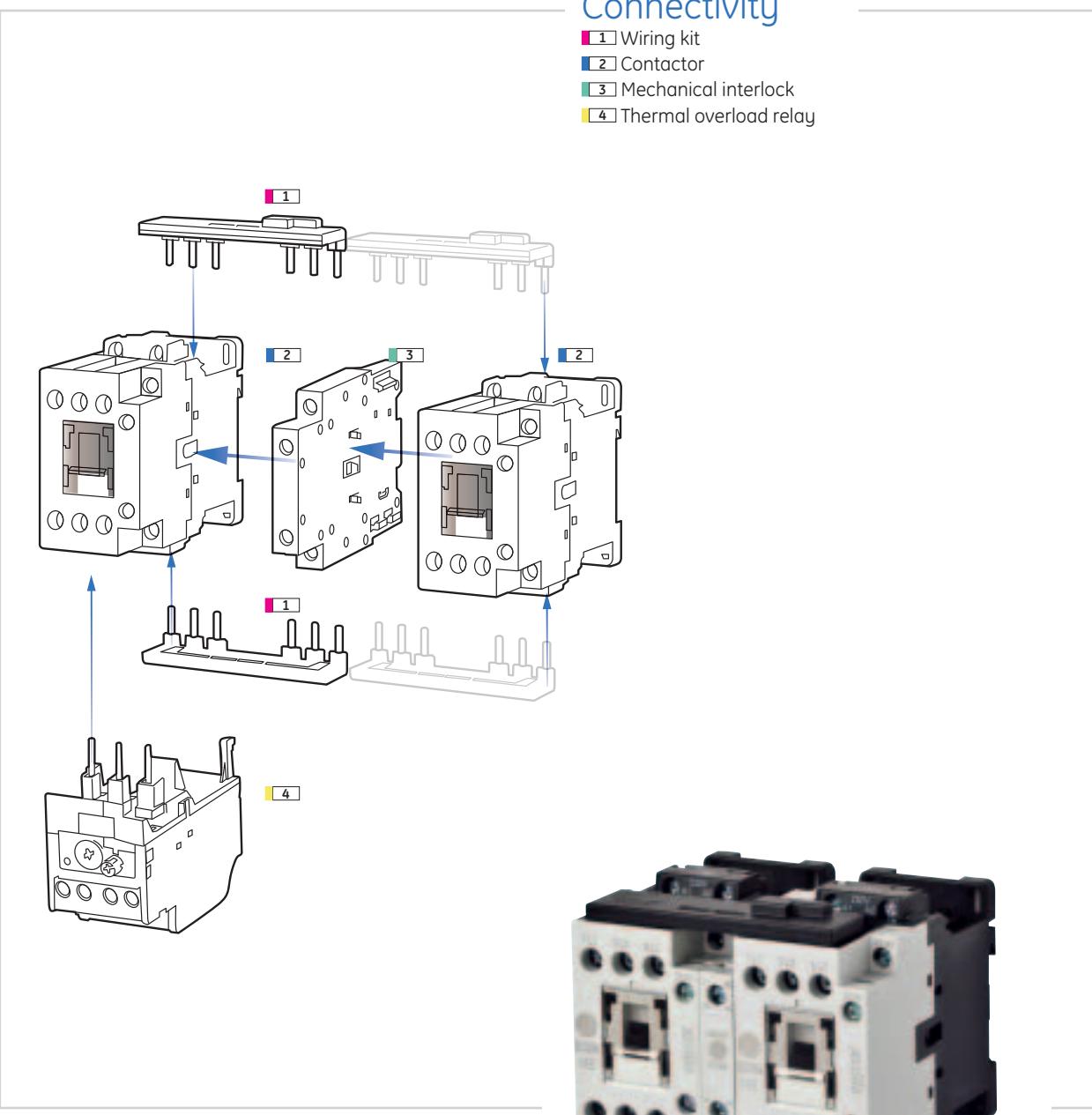
- 1 Feeding
- 2 Busbar
- 3 Manual motor starter
- 4 Cover
- 5 Link module
- 6 Contactor
- 7 Base plate



Reversing starter (with thermal overload relay)

Connectivity

- 1 Wiring kit
- 2 Contactor
- 3 Mechanical interlock
- 4 Thermal overload relay



Global contactors

A

B

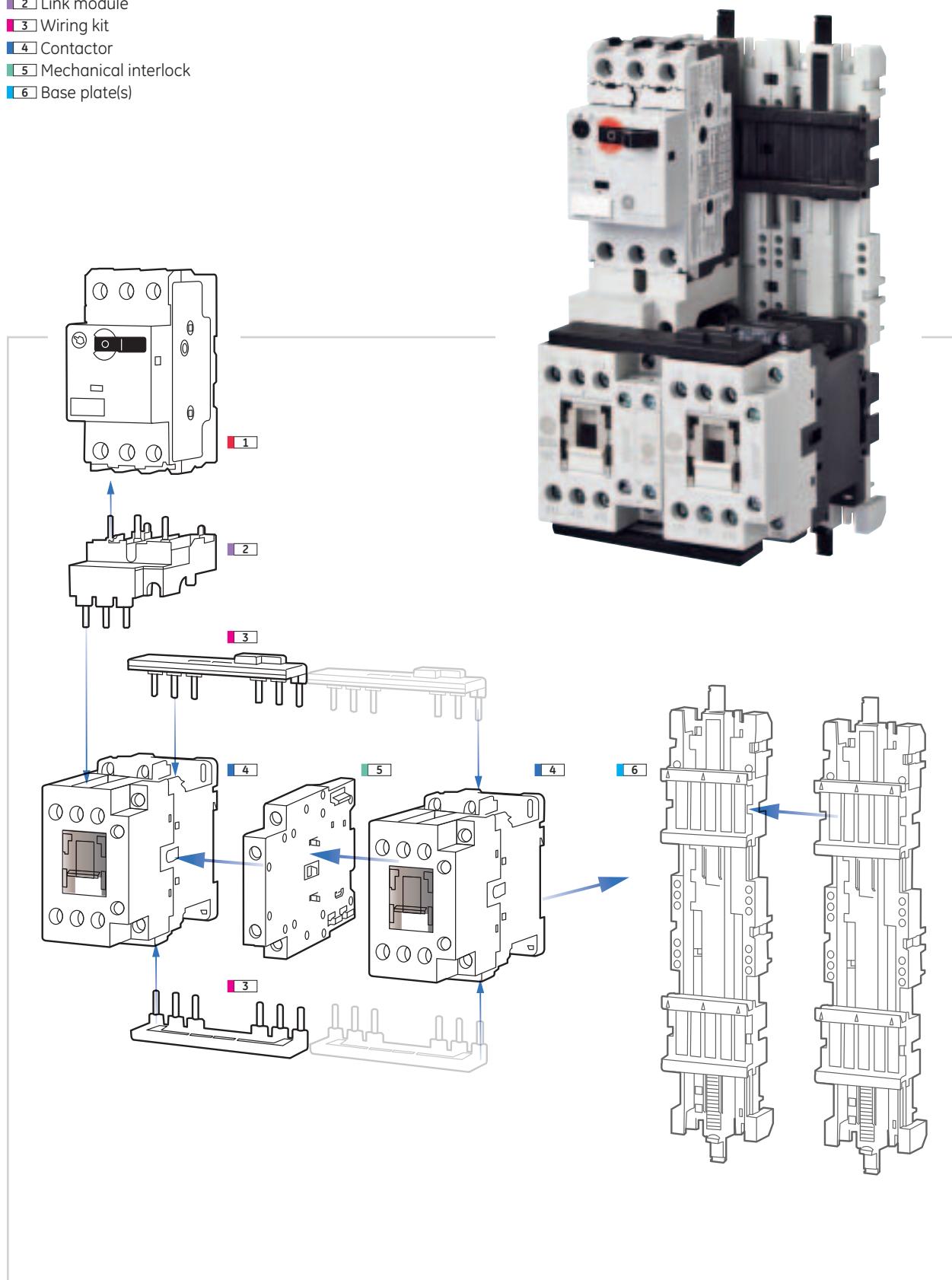
C

X

Reversing starter (without thermal overload relay)

Connectivity

- 1 Manual motor starter
- 2 Link module
- 3 Wiring kit
- 4 Contactor
- 5 Mechanical interlock
- 6 Base plate(s)



Reversing starter

A

B

C

X

Star delta starter

Global contactors

A

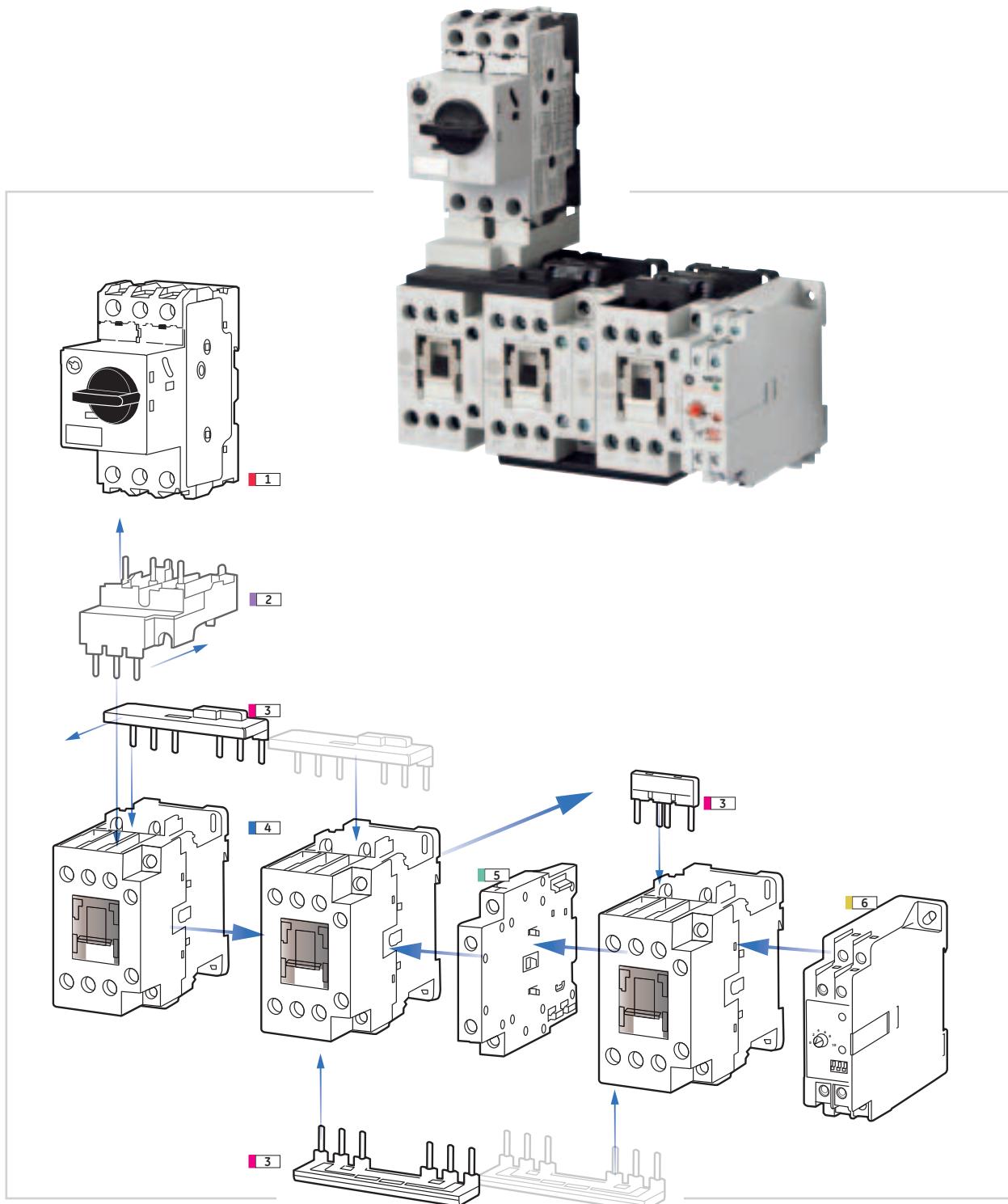
B

C

X

Connectivity

- 1 Manual motor starter
- 2 Link module
- 3 Wiring kit
- 4 Contactor(s)
- 5 Mechanical interlock
- 6 Timer



Contactors

- B.2 3 pole contactors - Box clamp terminals
- B.3 4 pole contactors - Box clamp terminals
- B.4 2NO - 2NC contactors - Box clamp terminals
- B.5 3 pole contactors - Ring terminals
- B.6 4 pole contactors - Ring terminals
- B.7 2NO - 2NC contactors - Ring terminals
- B.8 Auxiliary contactors - Box clamp terminals
- B.9 Auxiliary contactors - Ring terminals

Spare coils for contactors and auxiliary contactors

- B.10 Box clamp terminals
- B.11 Ring terminals

Advantages and Benefits

Order codes

Accessories

- B.12 For contactors
- B.14 For starters

Technical data

Numerical index

- B.15 Thermal overload relays

A

B

C

X



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Max. operating current		Admissible power AC3						Electrical endurance		Power cont.		Control circuit											
Not inductive load AC1 A	Motors <440V 3Ph 50/60Hz AC3 A	220-230V kW HP	380-400V kW HP	415-480V kW HP	500V kW HP	Cat. AC3 Operations	NO NC	AC				DC				Ref. no.	Voltage	Cat. no.	Ref. no.	Voltage	Cat. no. ⁽¹⁾	Ref. no.	Pack
25	12	3 4	5,5 7,5	5,5 7,5	7,5 10	1,7x10 ⁶	2 2 12 2 2 24 2 2 42 2 2 48 2 2 110 2 2 120 2 2 208 2 2 230 2 2 240 2 2 400 2 2 440 2 2 480 2 2 500 2 2 575 2 2 600	EC12AB00B012 EC12AB00B024 EC12AB00B042 EC12AB00B048 EC12AB00B110 EC12AB00B120 EC12AB00B208 EC12AB00B230 EC12AB00B240 EC12AB00B400 EC12AB00B440 EC12AB00B480 EC12AB00B500 EC12AB00B575 EC12AB00B600	267291 267292 267293 267294 267295 267296 267297 267298 267299 267300 267301 267302 267303 269115 267304	12 24 36 48 60 72 110 125 230 250 440 24 48 110 230	EC12DB00B012W EC12DB00B024W EC12DB00B036W EC12DB00B048W EC12DB00B060W EC12DB00B072W EC12DB00B110W EC12DB00B125W EC12DB00B230W EC12DB00B250W EC12DB00B440W EC12DB00B230L	267347 267348 267349 267350 267351 267352 267353 267354 267355 267356 267357 267358 267359 267360 267361	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										
32	18	4 5,5	7,5 10	7,5 10	10 13,5	1,5x10 ⁶	2 2 12 2 2 24 2 2 42 2 2 48 2 2 110 2 2 120 2 2 208 2 2 230 2 2 240 2 2 400 2 2 440 2 2 480 2 2 500 2 2 575 2 2 600	EC18AB00B012 EC18AB00B024 EC18AB00B042 EC18AB00B048 EC18AB00B110 EC18AB00B120 EC18AB00B208 EC18AB00B230 EC18AB00B240 EC18AB00B400 EC18AB00B440 EC18AB00B480 EC18AB00B500 EC18AB00B575 EC18AB00B600	267305 267306 267307 267308 267309 267310 267311 267312 267313 267314 267315 267316 267317 269116 267318	12 24 36 48 60 72 110 125 230 250 440 24 48 110 230	EC18DB00B012W EC18DB00B024W EC18DB00B036W EC18DB00B048W EC18DB00B060W EC18DB00B072W EC18DB00B110W EC18DB00B125W EC18DB00B230W EC18DB00B250W EC18DB00B440W EC18DB00B230L	267362 267363 267364 267365 267366 267367 267368 267369 267370 267371 267372 267373 267374 267375 267376	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										
45	25	7,5 10	11 15	12 16	15 20	1,5x10 ⁶	2 2 12 2 2 24 2 2 42 2 2 48 2 2 110 2 2 120 2 2 208 2 2 230 2 2 240 2 2 400 2 2 440 2 2 480 2 2 500 2 2 575 2 2 600	EC25AB00B012 EC25AB00B024 EC25AB00B042 EC25AB00B048 EC25AB00B110 EC25AB00B120 EC25AB00B208 EC25AB00B230 EC25AB00B240 EC25AB00B400 EC25AB00B440 EC25AB00B480 EC25AB00B500 EC25AB00B575 EC25AB00B600	267319 267320 267321 267322 267323 267324 267325 267326 267327 267328 267329 267330 267331 269117 267332	12 24 36 48 60 72 110 125 230 250 440 24 48 110 230	EC25DB00B012W EC25DB00B024W EC25DB00B036W EC25DB00B048W EC25DB00B060W EC25DB00B072W EC25DB00B110W EC25DB00B125W EC25DB00B230W EC25DB00B250W EC25DB00B440W EC25DB00B230L	267377 267378 267379 267380 267381 267382 267383 267384 267385 267386 267387	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										
60	32	9 12	15 22	15 22	18 25	1,5x10 ⁶	2 2 12 2 2 24 2 2 42 2 2 48 2 2 110 2 2 120 2 2 208 2 2 230 2 2 240 2 2 400 2 2 440 2 2 480 2 2 500 2 2 575 2 2 600	EC32AB00B012 EC32AB00B024 EC32AB00B042 EC32AB00B048 EC32AB00B110 EC32AB00B120 EC32AB00B208 EC32AB00B230 EC32AB00B240 EC32AB00B400 EC32AB00B440 EC32AB00B480 EC32AB00B500 EC32AB00B575 EC32AB00B600	267333 267334 267335 267336 267337 267338 267339 267340 267341 267342 267343 267344 267345 269118 267346	12 24 36 48 60 72 110 125 230 250 440 24 48 110 230	EC32DB00B012W EC32DB00B024W EC32DB00B036W EC32DB00B048W EC32DB00B060W EC32DB00B072W EC32DB00B110W EC32DB00B125W EC32DB00B230W EC32DB00B250W EC32DB00B440W EC32DB00B230L	267392 267393 267394 267395 267396 267397 267398 267399 267400 267401 267402	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										



(1) End character: W = Wide voltage and built-in diode L = Low consumption

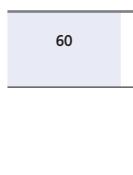


3 pole contactors - Ring terminals

Max. operating current		Admissible power AC3				Electrical endurance	Aux. cont.	Control circuit							
Not inductive load AC1 A	Motors <440V 3Ph 50/60Hz	220- 230V AC3 A	380- 400V kW HP	415- 480V kW HP	500V kW HP	Cat. AC3	NO NC	AC				DC			
Operations	Voltage	Cat. no.	Ref. no.	Voltage	Cat. no. ⁽¹⁾	Ref. no.	Pack								
25	9	2,2 3	4 5,5	4 5,5	5,5 7,5	1,7x10 ⁶		1 1 12 1 1 24 1 1 42 1 1 48 1 1 110 1 1 120 1 1 208 1 1 230 1 1 240 1 1 400 1 1 440 1 1 480 1 1 500 1 1 575 1 1 600	EC09A311R012 EC09A311R024 EC09A311R042 EC09A311R048 EC09A311R110 EC09A311R120 EC09A311R208 EC09A311R230 EC09A311R240 EC09A311R400 EC09A311R440 EC09A311R480 EC09A311R500 EC09A311R575 EC09A311R600	267697 267698 267699 267700 267701 267702 267703 267704 267705 267706 267707 267708 267709 269248 267710	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC09D311R012W EC09D311R024W EC09D311R036W EC09D311R048W EC09D311R060W EC09D311R072W EC09D311R110W EC09D311R125W EC09D311R230W EC09D311R250W EC09D311R440W EC09D311R024L EC09D311R048L EC09D311R110L EC09D311R230L	267781 267782 267783 267784 267785 267786 267787 267788 267789 267790 267791 267792 267793 267794 267795	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
25	12	3 4	5,5 7,5	5,5 7,5	7,5 10	1,7x10 ⁶		1 1 12 1 1 24 1 1 42 1 1 48 1 1 110 1 1 120 1 1 208 1 1 230 1 1 240 1 1 400 1 1 440 1 1 480 1 1 500 1 1 575 1 1 600	EC12A311R012 EC12A311R024 EC12A311R042 EC12A311R048 EC12A311R110 EC12A311R120 EC12A311R208 EC12A311R230 EC12A311R240 EC12A311R400 EC12A311R440 EC12A311R480 EC12A311R500 EC12A311R575 EC12A311R600	267711 267712 267713 267714 267715 267716 267717 267718 267719 267720 267721 267722 267723 269249 267724	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC12D311R012W EC12D311R024W EC12D311R036W EC12D311R048W EC12D311R060W EC12D311R072W EC12D311R110W EC12D311R125W EC12D311R230W EC12D311R250W EC12D311R440W EC12D311R024L EC12D311R048L EC12D311R110L EC12D311R230L	267796 267797 267798 267799 267800 267801 267802 267803 267804 267805 267806 267807 267808 267809 267810	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
32	18	4 5,5	7,5 10	7,5 10	10 13,5	1,7x10 ⁶		1 1 12 1 1 24 1 1 42 1 1 48 1 1 110 1 1 120 1 1 208 1 1 230 1 1 240 1 1 400 1 1 440 1 1 480 1 1 500 1 1 575 1 1 600	EC18A311R012 EC18A311R024 EC18A311R042 EC18A311R048 EC18A311R110 EC18A311R120 EC18A311R208 EC18A311R230 EC18A311R240 EC18A311R400 EC18A311R440 EC18A311R480 EC18A311R500 EC18A311R575 EC18A311R600	267725 267726 267727 267728 267729 267730 267731 267732 267733 267734 267735 267736 267737 269250 267738	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC18D311R012W EC18D311R024W EC18D311R036W EC18D311R048W EC18D311R060W EC18D311R072W EC18D311R110W EC18D311R125W EC18D311R230W EC18D311R250W EC18D311R440W EC18D311R024L EC18D311R048L EC18D311R110L EC18D311R230L	267811 267812 267813 267814 267815 267816 267817 267818 267819 267820 267821 267822 267823 267824 267825	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
45	25	7,5 10	11 15	12 16	15 20	1,5x10 ⁶		1 1 12 1 1 24 1 1 42 1 1 48 1 1 110 1 1 120 1 1 208 1 1 230 1 1 240 1 1 400 1 1 440 1 1 480 1 1 500 1 1 575 1 1 600	EC25A300R012 EC25A300R024 EC25A300R042 EC25A300R048 EC25A300R110 EC25A300R120 EC25A300R208 EC25A300R230 EC25A300R240 EC25A300R400 EC25A300R440 EC25A300R480 EC25A300R500 EC25A300R575 EC25A300R600	267739 267740 267741 267742 267743 267744 267745 267746 267747 267748 267749 267750 267751 269251 267752	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC25D300R012W EC25D300R024W EC25D300R036W EC25D300R048W EC25D300R060W EC25D300R072W EC25D300R110W EC25D300R125W EC25D300R230W EC25D300R250W EC25D300R440W EC25D300R024L EC25D300R048L EC25D300R110L EC25D300R230L	267826 267827 267828 267829 267830 267831 267832 267833 267834 267835 267836 267837 267838 267839 267840	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
60	32	9 12	15 22	15 22	18 25	1,5x10 ⁶		0 0 12 0 0 24 0 0 42 0 0 48 0 0 110 0 0 120 0 0 208 0 0 230 0 0 240 0 0 400 0 0 440 0 0 480 0 0 500 0 0 575 0 0 600	EC32A300R012 EC32A300R024 EC32A300R042 EC32A300R048 EC32A300R110 EC32A300R120 EC32A300R208 EC32A300R230 EC32A300R240 EC32A300R400 EC32A300R440 EC32A300R480 EC32A300R500 EC32A300R575 EC32A300R600	267753 267754 267755 267756 267757 267758 267759 267760 267761 267762 267763 267764 267765 269252 267753	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC32D300R012W EC32D300R024W EC32D300R036W EC32D300R048W EC32D300R060W EC32D300R072W EC32D300R110W EC32D300R125W EC32D300R230W EC32D300R250W EC32D300R440W EC32D300R024L EC32D300R048L EC32D300R110L EC32D300R230L	267841 267842 267843 267844 267845 267846 267847 267848 267849 267850 267851 267852 267853 267854 267855	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
60	40	11 15	18,5 25	22 30	25 34	1,5x10 ⁶		0 0 12 0 0 24 0 0 42 0 0 48 0 0 110 0 0 120 0 0 208 0 0 230 0 0 240 0 0 400 0 0 440 0 0 480 0 0 500 0 0 575 0 0 600	EC40A300R012 EC40A300R024 EC40A300R042 EC40A300R048 EC40A300R110 EC40A300R120 EC40A300R208 EC40A300R230 EC40A300R240 EC40A300R400 EC40A300R440 EC40A300R480 EC40A300R500 EC40A300R575 EC40A300R600	267767 267768 267769 267770 267771 267772 267773 267774 267775 267776 267777 267778 267779 269253 267780	12 24 36 48 60 72 110 125 230 250 440 24 48 110 60	EC40D300R012W EC40D300R024W EC40D300R036W EC40D300R048W EC40D300R060W EC40D300R072W EC40D300R110W EC40D300R125W EC40D300R230W EC40D300R250W EC40D300R440W EC40D300R024L EC40D300R048L EC40D300R110L EC40D300R230L	267856 267857 267858 267859 267860 267861 267862 267863 267864 267865 267866 267867 267868 267869 267870	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

(1) End character: W = Wide voltage and built-in diode
L = Low consumption





4 pole contactors - Ring terminals

Max. operating current		Admissible power AC1				Electrical endurance	Power cont.	Control circuit							
Not inductive load AC1 A	Motors <440V 3Ph 50/60Hz AC3 A	220-230V kW	380-400V kW	415-480V kW	500V kW	Cat. AC1 Operations	NO NC	AC				DC			
								Voltage	Cat. no.	Ref. no.	Voltage ⁽¹⁾	Cat. no.	Ref. no.	Pack	
25	12	9,5	16,5	18	21,5	4x10 ⁶	4 0 12 4 0 24 4 0 42 4 0 48 4 0 110 4 0 120 4 0 208 4 0 230 4 0 240 4 0 400 4 0 440 4 0 480 4 0 500 4 0 575 4 0 600	EC12A400R012 EC12A400R024 EC12A400R042 EC12A400R048 EC12A400R110 EC12A400R120 EC12A400R208 EC12A400R230 EC12A400R240 EC12A400R400 EC12A400R440 EC12A400R480 EC12A400R500 EC12A400R575 EC12A400R600	267871 267872 267873 267874 267875 267876 267877 267878 267879 267880 267881 267882 267883 269254 267884	12 24 36 48 60 72 110 125 230 250 440 230 24 48 110 120 208 230 240 400 440 480 500 575 600	EC12D400R012W EC12D400R024W EC12D400R036W EC12D400R048W EC12D400R060W EC12D400R072W EC12D400R110W EC12D400R125W EC12D400R230W EC12D400R250W EC12D400R440W EC12D400R230L	267927 267928 267929 267930 267931 267932 267933 267934 267935 267936 267937 267941	5 5 5 5 5 5 5 5 5 5 5 5		
32	18	12	22	23	27,5	6x10 ⁶	4 0 12 4 0 24 4 0 42 4 0 48 4 0 110 4 0 120 4 0 208 4 0 230 4 0 240 4 0 400 4 0 440 4 0 480 4 0 500 4 0 575 4 0 600	EC18A400R012 EC18A400R024 EC18A400R042 EC18A400R048 EC18A400R110 EC18A400R120 EC18A400R208 EC18A400R230 EC18A400R240 EC18A400R400 EC18A400R440 EC18A400R480 EC18A400R500 EC18A400R575 EC18A400R600	267885 267886 267887 267888 267889 267890 267891 267892 267893 267894 267895 267896 267897 269255 267898	12 24 36 48 60 72 110 125 230 250 440 480 24 48 110 120 208 230 240 400 440 480 500 575 600	EC18D400R012W EC18D400R024W EC18D400R036W EC18D400R048W EC18D400R060W EC18D400R072W EC18D400R110W EC18D400R125W EC18D400R230W EC18D400R250W EC18D400R440W EC18D400R230L	267942 267943 267944 267945 267946 267947 267948 267949 267950 267951 267952 267953 267954 267955 267956	5 5 5 5 5 5 5 5 5 5 5 5		
45	25	17	29	32	39	6,3x10 ⁶	4 0 12 4 0 24 4 0 42 4 0 48 4 0 110 4 0 120 4 0 208 4 0 230 4 0 240 4 0 400 4 0 440 4 0 480 4 0 500 4 0 575 4 0 600	EC25A400R012 EC25A400R024 EC25A400R042 EC25A400R048 EC25A400R110 EC25A400R120 EC25A400R208 EC25A400R230 EC25A400R240 EC25A400R400 EC25A400R440 EC25A400R480 EC25A400R500 EC25A400R575 EC25A400R600	267899 267900 267901 267902 267903 267904 267905 267906 267907 267908 267909 267910 267911 269256 267912	12 24 36 48 60 72 110 125 230 250 440 480 24 48 110 120 208 230 240 400 440 480 500 575 600	EC25D400R012W EC25D400R024W EC25D400R036W EC25D400R048W EC25D400R060W EC25D400R072W EC25D400R110W EC25D400R125W EC25D400R230W EC25D400R250W EC25D400R440W EC25D400R230L	267957 267958 267959 267960 267961 267962 267963 267964 267965 267966 267967 267968 267969 267970 267971	5 5 5 5 5 5 5 5 5 5 5 5		
60	32	22,5	39,5	43	52	8x10 ⁶	4 0 12 4 0 24 4 0 42 4 0 48 4 0 110 4 0 120 4 0 208 4 0 230 4 0 240 4 0 400 4 0 440 4 0 480 4 0 500 4 0 575 4 0 600	EC32A400R012 EC32A400R024 EC32A400R042 EC32A400R048 EC32A400R110 EC32A400R120 EC32A400R208 EC32A400R230 EC32A400R240 EC32A400R400 EC32A400R440 EC32A400R480 EC32A400R500 EC32A400R575 EC32A400R600	267913 267914 267915 267916 267917 267918 267919 267920 267921 267922 267923 267924 267925 269257 267926	12 24 36 48 60 72 110 125 230 250 440 480 24 48 110 120 208 230 240 400 440 480 500 575 600	EC32D400R012W EC32D400R024W EC32D400R036W EC32D400R048W EC32D400R060W EC32D400R072W EC32D400R110W EC32D400R125W EC32D400R230W EC32D400R250W EC32D400R440W EC32D400R230L	267972 267973 267974 267975 267976 267977 267978 267979 267980 267981 267982 267983 267984 267985 267986	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

(1) End character: W = Wide voltage and built-in diode
L = Low consumption

Auxiliary contactors - Double box terminals - Ith 20A

Global contactor

A

B

C

X



Contacts		Control circuit							
		AC		DC		Ref. no.	Pack		
NO	NC	Voltage	Cat. no.	Voltage	Cat. no. ⁽¹⁾				
•3 •4	•1 •2								
4	0	12	ECACA440B012	268140	12	ECACD440B012W	268210	5	
4	0	24	ECACA440B024	268141	24	ECACD440B024W	268211	5	
4	0	42	ECACA440B042	268142	36	ECACD440B036W	268212	5	
4	0	48	ECACA440B048	268143	48	ECACD440B048W	268213	5	
4	0	110	ECACA440B110	268144	60	ECACD440B060W	268214	5	
4	0	120	ECACA440B120	268145	72	ECACD440B072W	268215	5	
4	0	208	ECACA440B208	268146	110	ECACD440B110W	268216	5	
4	0	230	ECACA440B230	268147	125	ECACD440B125W	268217	5	
4	0	240	ECACA440B240	268148	230	ECACD440B230W	268218	5	
4	0	400	ECACA440B400	268149	250	ECACD440B250W	268219	5	
4	0	440	ECACA440B440	268150	400	ECACD440B400W	268220	5	
4	0	480	ECACA440B480	268151					
4	0	500	ECACA440B500	268152	24	ECACD440B024L	268221	5	
4	0	575	ECACA440B575	268673	48	ECACD440B048L	268222	5	
4	0	600	ECACA440B600	268153	110	ECACD440B110L	268223	5	
4	0				230	ECACD440B230L	268224	5	
3	1	12	ECACA431B012	268154	12	ECACD431B012W	268225	5	
3	1	24	ECACA431B024	268155	24	ECACD431B024W	268226	5	
3	1	42	ECACA431B042	268156	36	ECACD431B036W	268227	5	
3	1	48	ECACA431B048	268157	48	ECACD431B048W	268228	5	
3	1	110	ECACA431B110	268158	60	ECACD431B060W	268229	5	
3	1	120	ECACA431B120	268159	72	ECACD431B072W	268230	5	
3	1	208	ECACA431B208	268160	110	ECACD431B110W	268231	5	
3	1	230	ECACA431B230	268161	125	ECACD431B125W	268232	5	
3	1	240	ECACA431B240	268162	230	ECACD431B230W	268233	5	
3	1	400	ECACA431B400	268163	250	ECACD431B250W	268234	5	
3	1	440	ECACA431B440	268164	400	ECACD431B400W	268235	5	
3	1	480	ECACA431B480	268165					
3	1	500	ECACA431B500	268166	24	ECACD431B024L	268236	5	
3	1	575	ECACA431B575	268674	48	ECACD431B048L	268237	5	
3	1	600	ECACA431B600	268167	110	ECACD431B110L	268238	5	
3	1				230	ECACD431B230L	268239	5	
2	2	12	ECACA422B012	268168	12	ECACD422B012W	268240	5	
2	2	24	ECACA422B024	268169	24	ECACD422B024W	268241	5	
2	2	42	ECACA422B042	268170	36	ECACD422B036W	268242	5	
2	2	48	ECACA422B048	268171	48	ECACD422B048W	268243	5	
2	2	110	ECACA422B110	268172	60	ECACD422B060W	268244	5	
2	2	120	ECACA422B120	268173	72	ECACD422B072W	268245	5	
2	2	208	ECACA422B208	268174	110	ECACD422B110W	268246	5	
2	2	230	ECACA422B230	268175	125	ECACD422B125W	268247	5	
2	2	240	ECACA422B240	268176	230	ECACD422B230W	268248	5	
2	2	400	ECACA422B400	268177	250	ECACD422B250W	268249	5	
2	2	440	ECACA422B440	268178	400	ECACD422B400W	268250	5	
2	2	480	ECACA422B480	268179					
2	2	500	ECACA422B500	268180	24	ECACD422B024L	268251	5	
2	2	575	ECACA422B575	268675	48	ECACD422B048L	268252	5	
2	2	600	ECACA422B600	268181	110	ECACD422B110L	268253	5	
2	2				230	ECACD422B230L	268254	5	
1	3	12	ECACA413B012	268182	12	ECACD413C012W	268400	5	
1	3	24	ECACA413B024	268183	24	ECACD413C024W	268401	5	
1	3	42	ECACA413B042	268184	36	ECACD413C036W	268402	5	
1	3	48	ECACA413B048	268185	48	ECACD413C048W	268403	5	
1	3	110	ECACA413B110	268186	60	ECACD413C060W	268404	5	
1	3	120	ECACA413B120	268187	72	ECACD413C072W	268405	5	
1	3	208	ECACA413B208	268188	110	ECACD413C110W	268406	5	
1	3	230	ECACA413B230	268189	125	ECACD413C125W	268407	5	
1	3	240	ECACA413B240	268190	230	ECACD413C230W	268408	5	
1	3	400	ECACA413B400	268191	250	ECACD413C250W	268409	5	
1	3	440	ECACA413B440	268192	400	ECACD413C400W	268410	5	
1	3	480	ECACA413B480	268193					
1	3	500	ECACA413B500	268194	24	ECACD413C024L	268411	5	
1	3	575	ECACA413B575	268676	48	ECACD413C048L	268412	5	
1	3	600	ECACA413B600	268195	110	ECACD413C110L	268413	5	
1	3				230	ECACD413C230L	268414	5	
0	4	12	ECACA404B012	268196	12	ECACD404B012W	268270	5	
0	4	24	ECACA404B024	268197	24	ECACD404B024W	268271	5	
0	4	42	ECACA404B042	268198	36	ECACD404B036W	268272	5	
0	4	48	ECACA404B048	268199	48	ECACD404B048W	268273	5	
0	4	110	ECACA404B110	268200	60	ECACD404B060W	268274	5	
0	4	120	ECACA404B120	268201	72	ECACD404B072W	268275	5	
0	4	208	ECACA404B208	268202	110	ECACD404B110W	268276	5	
0	4	230	ECACA404B230	268203	125	ECACD404B125W	268277	5	
0	4	240	ECACA404B240	268204	230	ECACD404B230W	268278	5	
0	4	400	ECACA404B400	268205	250	ECACD404B250W	268279	5	
0	4	440	ECACA404B440	268206	400	ECACD404B400W	268280	5	
0	4	480	ECACA404B480	268207					
0	4	500	ECACA404B500	268208	24	ECACD404B024L	268281	5	
0	4	575	ECACA404B575	268677	48	ECACD404B048L	268282	5	
0	4	600	ECACA404B600	268209	110	ECACD404B110L	268283	5	
0	4				230	ECACD404B230L	268284	5	

(1) End character: W = Wide voltage and built-in diode
L = Low consumption



Auxiliary contactors - Ring terminals - Ith 20A

Contacts		Control circuit							
NO	NC	AC				DC			
		Voltage	Cat. no.	Ref. no.	Voltage	Cat. no. ⁽¹⁾	Ref. no.	Pack	
•3	•1	12	ECACA440R012	268430	12	ECACD440R012W	268500	5	
•4	•2	24	ECACA440R024	268431	24	ECACD440R024W	268501	5	
4	0	42	ECACA440R042	268432	36	ECACD440R036W	268502	5	
4	0	48	ECACA440R048	268433	48	ECACD440R048W	268503	5	
4	0	110	ECACA440R110	268434	60	ECACD440R060W	268504	5	
4	0	120	ECACA440R120	268435	72	ECACD440R072W	268505	5	
4	0	208	ECACA440R208	268436	110	ECACD440R110W	268506	5	
4	0	230	ECACA440R230	268437	125	ECACD440R125W	268507	5	
4	0	240	ECACA440R240	268438	230	ECACD440R230W	268508	5	
4	0	400	ECACA440R400	268439	250	ECACD440R250W	268509	5	
4	0	440	ECACA440R440	268440	400	ECACD440R400W	268510	5	
4	0	480	ECACA440R480	268441					
4	0	500	ECACA440R500	268442	24	ECACD440R024L	268511	5	
4	0	575	ECACA440R575	268483	48	ECACD440R048L	268512	5	
4	0	600	ECACA440R600	268443	110	ECACD440R110L	268513	5	
4	0				230	ECACD440R230L	268514	5	
3	1	12	ECACA431R012	268445	12	ECACD431R012W	268515	5	
3	1	24	ECACA431R024	268445	24	ECACD431R024W	268516	5	
3	1	42	ECACA431R042	268446	36	ECACD431R036W	268517	5	
3	1	48	ECACA431R048	268447	48	ECACD431R048W	268518	5	
3	1	110	ECACA431R110	268448	60	ECACD431R060W	268519	5	
3	1	120	ECACA431R120	268449	72	ECACD431R072W	268520	5	
3	1	208	ECACA431R208	268450	110	ECACD431R110W	268521	5	
3	1	230	ECACA431R230	268451	125	ECACD431R125W	268522	5	
3	1	240	ECACA431R240	268452	230	ECACD431R230W	268523	5	
3	1	400	ECACA431R400	268453	250	ECACD431R250W	268524	5	
3	1	440	ECACA431R440	268454	400	ECACD431R400W	268525	5	
3	1	480	ECACA431R480	268455					
3	1	500	ECACA431R500	268456	24	ECACD431R024L	268526	5	
3	1	575	ECACA431R575	268684	48	ECACD431R048L	268527	5	
3	1	600	ECACA431R600	268457	110	ECACD431R110L	268528	5	
3	1				230	ECACD431R230L	268529	5	
2	2	12	ECACA422R012	268458	12	ECACD422R012W	268530	5	
2	2	24	ECACA422R024	268459	24	ECACD422R024W	268531	5	
2	2	42	ECACA422R042	268460	36	ECACD422R036W	268532	5	
2	2	48	ECACA422R048	268461	48	ECACD422R048W	268533	5	
2	2	110	ECACA422R110	268462	60	ECACD422R060W	268534	5	
2	2	120	ECACA422R120	268463	72	ECACD422R072W	268535	5	
2	2	208	ECACA422R208	268464	110	ECACD422R110W	268536	5	
2	2	230	ECACA422R230	268465	125	ECACD422R125W	268537	5	
2	2	240	ECACA422R240	268466	230	ECACD422R230W	268538	5	
2	2	400	ECACA422R400	268467	250	ECACD422R250W	268539	5	
2	2	440	ECACA422R440	268468	400	ECACD422R400W	268540	5	
2	2	480	ECACA422R480	268469					
2	2	500	ECACA422R500	268470	24	ECACD422R024L	268541	5	
2	2	575	ECACA422R575	268685	48	ECACD422R048L	268542	5	
2	2	600	ECACA422R600	268471	110	ECACD422R110L	268543	5	
2	2				230	ECACD422R230L	268544	5	
1	3	12	ECACA413R012	268472	12	ECACD413R012W	268545	5	
1	3	24	ECACA413R024	268473	24	ECACD413R024W	268546	5	
1	3	42	ECACA413R042	268474	36	ECACD413R036W	268547	5	
1	3	48	ECACA413R048	268475	48	ECACD413R048W	268548	5	
1	3	110	ECACA413R110	268476	60	ECACD413R060W	268549	5	
1	3	120	ECACA413R120	268477	72	ECACD413R072W	268550	5	
1	3	208	ECACA413R208	268478	110	ECACD413R110W	268551	5	
1	3	230	ECACA413R230	268479	125	ECACD413R125W	268552	5	
1	3	240	ECACA413R240	268480	230	ECACD413R230W	268553	5	
1	3	400	ECACA413R400	268481	250	ECACD413R250W	268554	5	
1	3	440	ECACA413R440	268482	400	ECACD413R400W	268555	5	
1	3	480	ECACA413R480	268483					
1	3	500	ECACA413R500	268484	24	ECACD413R024L	268556	5	
1	3	575	ECACA413R575	268686	48	ECACD413R048L	268557	5	
1	3	600	ECACA413R600	268485	110	ECACD413R110L	268558	5	
1	3				230	ECACD413R230L	268559	5	
0	4	12	ECACA404R012	268486	12	ECACD404R012W	268560	5	
0	4	24	ECACA404R024	268487	24	ECACD404R024W	268561	5	
0	4	42	ECACA404R042	268488	36	ECACD404R036W	268562	5	
0	4	48	ECACA404R048	268489	48	ECACD404R048W	268563	5	
0	4	110	ECACA404R110	268490	60	ECACD404R060W	268564	5	
0	4	120	ECACA404R120	268491	72	ECACD404R072W	268565	5	
0	4	208	ECACA404R208	268492	110	ECACD404R110W	268566	5	
0	4	230	ECACA404R230	268493	125	ECACD404R125W	268567	5	
0	4	240	ECACA404R240	268494	230	ECACD404R230W	268568	5	
0	4	400	ECACA404R400	268495	250	ECACD404R250W	268569	5	
0	4	440	ECACA404R440	268496	400	ECACD404R400W	268570	5	
0	4	480	ECACA404R480	268497					
0	4	500	ECACA404R500	268498	24	ECACD404R024L	268571	5	
0	4	575	ECACA404R575	268686	48	ECACD404R048L	268572	5	
0	4	600	ECACA404R600	268499	110	ECACD404R110L	268573	5	
0	4				230	ECACD404R230L	268574	5	

(1) End character: W = Wide voltage and built-in diode
L = Low consumption



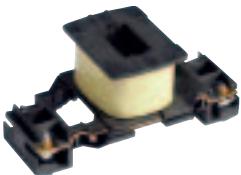


Spare coils for contactors and auxiliary contactors - Box clamp terminals

	Voltage	Use for	Cat. no.	Ref. no.	Pack
AC coil Voltage in AC 50/60Hz	12V 24V 32V 48V 110V 120V 208V 230V 240V 400V 440V 480V 500V 575V 600V	EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B EC09A..EC18A..ECACA...B	ECCS1A012S ECCS1A024S ECCS1A042S ECCS1A048S ECCS1A110S ECCS1A120S ECCS1A208S ECCS1A230S ECCS1A240S ECCS1A400S ECCS1A440S ECCS1A480S ECCS1A500S ECCS1A575S ECCS1A600S	268687 268688 268689 268690 268691 268692 268693 268694 268695 268696 268697 268698 268699 268984 268700	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DC Wide Voltage range (W) Operating range: +25% Un -30% Un	12Vdc 24Vdc 36Vdc 48Vdc 60Vdc 72Vdc 110Vdc 125Vdc 230Vdc 250Vdc 440Vdc	EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B	ECCS1D012S ECCS1D024S ECCS1D036S ECCS1D048S ECCS1D060S ECCS1D072S ECCS1D110S ECCS1D125S ECCS1D230S ECCS1D250S ECCS1D440S	268701 268702 268703 268704 268705 268706 268707 268708 268709 268710 268711	5 5 5 5 5 5 5 5 5 5 5
DC Low Consumption (L) VDC < 3,3W for EC09 up to EC18	24Vdc 48Vdc 110Vdc 230Vdc	EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B EC09D..EC18D..ECACD...B	ECCS1D024SL ECCS1D048SL ECCS1D110SL ECCS1D230SL	268712 268713 268714 268715	5 5 5 5
AC coil Voltage in AC 50/60Hz	12V 24V 32V 48V 110V 120V 208V 230V 240V 400V 440V 480V 500V 575V 600V	EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B EC25A..EC40A...B	ECCS2A012S ECCS2A024S ECCS2A042S ECCS2A048S ECCS2A110S ECCS2A120S ECCS2A208S ECCS2A230S ECCS2A240S ECCS2A400S ECCS2A440S ECCS2A480S ECCS2A500S ECCS2A575S ECCS2A600S	268716 268717 268718 268719 268720 268721 268722 268723 268724 268725 268726 268727 268728 268985 268729	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DC Wide Voltage range (W) Operating range: +25% Un -30% Un	12Vdc 24Vdc 36Vdc 48Vdc 60Vdc 72Vdc 110Vdc 125Vdc 230Vdc 250Vdc 440Vdc	EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B	ECCS2D012S ECCS2D024S ECCS2D036S ECCS2D048S ECCS2D060S ECCS2D072S ECCS2D110S ECCS2D125S ECCS2D230S ECCS2D250S ECCS2D440S	268730 268731 268732 268733 268734 268735 268736 268737 268738 268739 268740	5 5 5 5 5 5 5 5 5 5 5
DC Low Consumption (L) VDC < 4,3W for EC25 up to EC40	24Vdc 48Vdc 110Vdc 230Vdc	EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B EC25AD..EC40D...B	ECCS2D024SL ECCS2D048SL ECCS2D210SL ECCS2D230SL	268741 268742 268743 268744	5 5 5 5

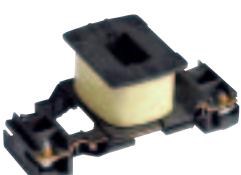
Spare coils for contactors and auxiliary contactors - Ring terminals

	Voltage	Use for	Cat. no.	Ref. no.	Pack
AC coil Voltage in AC 50/60Hz	12V 24V 32V 48V 110V 120V 208V 230V 240V 400V 440V 480V 500V 575V 600V	EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECACA..R EC09A..EC18A..ECCA..R	ECCS1A012R ECCS1A024R ECCS1A042R ECCS1A048R ECCS1A110R ECCS1A120R ECCS1A208R ECCS1A230R ECCS1A240R ECCS1A400R ECCS1A440R ECCS1A480R ECCS1A500R ECCS1A375R ECCS1A600R	268803 268804 268805 268806 268807 268808 268809 268810 268811 268812 268813 268814 268815 269337 268816	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DC Wide Voltage range (W) Operating range: +25% Un -30% Un	12Vdc 24Vdc 36Vdc 48Vdc 60Vdc 72Vdc 110Vdc 125Vdc 230Vdc 250Vdc 440Vdc	EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R	ECCS1D012R ECCS1D024R ECCS1D036R ECCS1D048R ECCS1D060R ECCS1D072R ECCS1D110R ECCS1D125R ECCS1D230R ECCS1D250R ECCS1D440R	268817 268818 268819 268820 268821 268822 268823 268824 268825 268826 268827	5 5 5 5 5 5 5 5 5 5 5
DC Low Consumption (L) VDC < 3,3W for EC09 up to EC18	24Vdc 48Vdc 110Vdc 230Vdc	EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R EC09D..EC18D..ECACD..R	ECCS1D024RL ECCS1D048RL ECCS1D110RL ECCS1D230RL	268828 268829 268830 268831	5 5 5 5
AC coil Voltage in AC 50/60Hz	12V 24V 32V 48V 110V 120V 208V 230V 240V 400V 440V 480V 500V 575V 600V	EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R EC25A..EC40A..R	ECCS2A012R ECCS2A024R ECCS2A042R ECCS2A048R ECCS2A110R ECCS2A120R ECCS2A208R ECCS2A230R ECCS2A240R ECCS2A400R ECCS2A440R ECCS2A480R ECCS2A500R ECCS2A575R ECCS2A600R	268832 268833 268834 268835 268836 268837 268838 268839 268840 268841 268842 268843 268844 269338 268845	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DC Wide Voltage range (W) Operating range: +25% Un -30% Un	12Vdc 24Vdc 36Vdc 48Vdc 60Vdc 72Vdc 110Vdc 125Vdc 230Vdc 250Vdc 440Vdc	EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R	ECCS2D012R ECCS2D024R ECCS2D036R ECCS2D048R ECCS2D060R ECCS2D072R ECCS2D110R ECCS2D125R ECCS2D230R ECCS2D250R ECCS2D440R	268846 268847 268848 268849 268850 268851 268852 268853 268854 268855 268856	5 5 5 5 5 5 5 5 5 5 5
DC Low Consumption (LC) VDC < 4,3W for EC25 up to EC40	24Vdc 48Vdc 110Vdc 230Vdc	EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R EC25D..EC40D..R	ECCS2D024RL ECCS2D048RL ECCS2D110RL ECCS2D230RL	268857 268858 268859 268860	5 5 5 5



DC Wide Voltage range (W)
Operating range:
+25% Un
-30% Un

DC Low Consumption (L)
VDC < 3,3W for EC09 up to EC18



DC Wide Voltage range (W)
Operating range:
+25% Un
-30% Un

DC Low Consumption (LC)
VDC < 4,3W for EC25 up to EC40

Order codes

A

B

C

X



Accessories for contactors

Global contactor

A

B

C

X

Auxiliary contact blocks

	Contacts					Ring terminals Cat. no.	Box clamp terminals Cat. no.	Ref. no.	Pack
	NO	NC	NO EM	NC EM					
	•3 •4	•1 •2	•7 •8	•5 •6					
Frontal auxiliary blocks									
	2 contacts								
	1 2 0	1 0 2	- -	- -		ECFA211R ECFA220R ECFA202R	268878 268879 268880	ECFA211S ECFA220S ECFA202S	268872 268873 268874
	4 contacts								
	4 3 2 1	0 1 2 3	- - - -	- - - -		ECFA440R ECFA431R ECFA422R ECFA413R	268893 268894 268895 268896	ECFA440S ECFA431S ECFA422S ECFA413S	268881 268882 268883 268884
	0 1	4 1	- 1	- 1		ECFA404R ECFA422RE	268897 268898	ECFA404S ECFA422SE	268885 268886
Lateral auxiliary blocks									
	Contact block								
	2 1 0	0 1 2	- - -	- - -		-	ECLA220S ECLA211S ECLA202S	268899 268900 268901	10 10 10
	Mechanical interlock								
	0 0	0 2	- -	- -		-	ECMI ECMI02S	268908 268910	10 10

Pneumatic timer

	NO	NC	Time	Type	Box clamp terminals		
					Cat. no.	Ref. no.	Pack
	•7 •8	•5 •6					
	1 1 1	1 1 1	0,1-30 s 1-60 s 0,1-30 s	delay ON delay ON delay OFF	ECPT30SC ECPT60SC ECPT30SD	268913 268914 268916	5 5 5
	1	1	1-60 s	delay OFF	ECPT60SD	268917	5

All accessories can be used with all type of contactors.



Mechanical latch

NC	Use with	Coil voltage 50/60Hz	Coil voltage DC	Box clamp terminals Cat. no.	Ref. no.	Pack
						
1	EC09A up to EC18A, ECACA	24-32V	-	ECML1AS032	268919	5
1	EC09A up to EC18A, ECACA	42-60V	-	ECML1AS060	268920	5
1	EC09A up to EC18A, ECACA	110-127V	-	ECML1AS127	268921	5
1	EC09A up to EC18A, ECACA	220-240V	-	ECML1AS277	268922	5
1	EC09A up to EC18A, ECACA	380-480V	-	ECML1AS480	268923	5
1	EC09A up to EC18A, ECACA	500-690V	-	ECML1AS660	268924	5
1	EC25A up to EC40A	24-32V	-	ECML2AS032	268925	5
1	EC25A up to EC40A	42-60V	-	ECML2AS060	268926	5
1	EC25A up to EC40A	110-127V	-	ECML2AS127	268927	5
1	EC25A up to EC40A	220-240V	-	ECML2AS277	268928	5
1	EC25A up to EC40A	380-480V	-	ECML2AS480	268929	5
1	EC25A up to EC40A	500-690V	-	ECML2AS660	268930	5
1	EC09D up to EC18D, ECACD	-	24-36V	ECML1DS036	269325	5
1	EC09D up to EC18D, ECACD	-	42-48V	ECML1DS060	269326	5
1	EC09D up to EC18D, ECACD	-	60-72V	ECML1DS172	269327	5
1	EC09D up to EC18D, ECACD	-	110-277V	ECML1DS277	269328	5
1	EC09D up to EC18D, ECACD	-	220-250V	ECML1DS250	269329	5
1	EC09D up to EC18D, ECACD	-	440V	ECML1DS440	269330	5
1	EC25D up to EC40D	-	24-36V	ECML2DS036	269331	5
1	EC25D up to EC40D	-	42-48V	ECML2DS048	269332	5
1	EC25D up to EC40D	-	60-72V	ECML2DS072	269333	5
1	EC25D up to EC40D	-	110-277V	ECML2DS277	269334	5
1	EC25D up to EC40D	-	220-250V	ECML2DS250	269335	5
1	EC25D up to EC40D	-	440V	ECML2DS440	269336	5

Surge suppressor (plug-in)

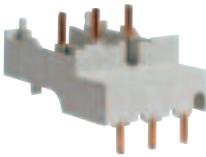
Description	Suppressor type	Voltage	Cat. no.	Ref. no.	Pack
Diode type, DC 12-440V	DI	DC	ECSUDI600	268931	10
RC type, AC 24-48V	RC	AC	ECSURC048	268932	10
RC type, AC 50-127V	RC	AC	ECSURC127	268933	10
RC type, AC 130-250V	RC	AC	ECSURC250	268934	10
RC type, AC 230-440V	RC	AC	ECSURC440	268935	10
RC type, AC 400-600V	RC	AC	ECSURC600	268936	10
Varistor type, AC/DC 24-48V	VA	AC/DC	ECSUVA048	268937	10
Varistor type, AC/DC 50-127V	VA	AC/DC	ECSUVA127	268938	10
Varistor type, AC/DC 130-250V	VA	AC/DC	ECSUVA250	268939	10
Varistor type, AC/DC 230-440V	VA	AC/DC	ECSUVA440	268940	10
Varistor type, AC/DC 400-600V	VA	AC/DC	ECSUVA600	268941	10

ASI communication

Supply voltage	Voltage designation	Voltage (V)	Cat. no.	Ref. no.	Pack
24-60V ac/dc	60	440	ECASI60E	268976	1
110-240V ac/dc	240	48	ECASI240E	268977	1
400-600V ac/dc	600	127	ECASI600E	268978	1

All accessories can be used with all type of contactors, except for mechanical latch.

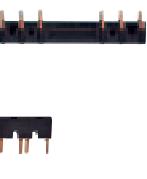
Accessories for starters

Fuseless starter kits

Use with	Description	Cat. no.	Ref. no.	Pack
GPS1 - EC09A up to EC25A	Link module	ECM1AL25	268954	5
GPS1 - EC32A	Link module	ECM1AL32	268955	5
GPS2 - EC32A and EC40A	Link module	ECM2AL40	268956	5
GPS1 - EC09 - EC18	Busbar adapter	PBF13ECDA	107148	5
GPS2 - EC32 - EC40	Busbar adapter	PCF13EBDA	107107	5
GPS1 - EC09 up to EC32	Base plate 45mm	ECBP45	268962	5
GPS2 - EC32 and EC40	Base plate 55mm	ECBP55	268953	5

**Wiring kits for reversing starters**

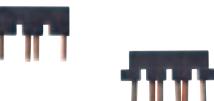
Use with	Description	Cat. no.	Ref. no.	Pack
EC09A up to EC25A	Suitable to be used for upper and lower connections with and without overload relay with mechanical interlock	ECKS1RV	268948	1
EC09A up to EC25A	Suitable to be used for upper and lower connections with and without overload relay without mechanical interlock	ECKS1RWOI	268949	1
EC32A and EC40A	Suitable to be used for upper and lower connections with and without overload relay with mechanical interlock	ECKS2RV	268950	1

**Wiring kits for star delta starters**

Use with	Description	Cat. no.	Ref. no.	Pack
EC09 up to EC25	Suitable to be used for upper and lower connections with and without overload relay	ECKS1YD	268951	1
EC32 and EC40	Suitable to be used for upper and lower connections with and without overload relay	ECKS2YD	268952	1

**Parallel busbar**

Use with	Description	Cat. no.	Ref. no.	Pack
EC09 up to EC25	Parallel busbar for 2 contactors	ECBB1B2	268942	5
EC32 and EC40	Parallel busbar for 2 contactors	ECBB2B2	268945	5

Parallel poles

Use with	Description	Cat. no.	Ref. no.	Pack
EC09 up to EC25	3 Poles in parallel	EC3PP1B	268943	6
EC09 up to EC25	4 Poles in parallel	EC4PP1B	268944	6
EC32 and EC40	3 Poles in parallel	EC3PP2B	268946	6
EC32 and EC40	4 Poles in parallel	EC4PP2B	268947	6



Thermal overload relays

Thermal overload relays

Trip class 10	Setting range				Fuses		Use with	Ring terminals		Box clamp terminals		
	Min. A	Max. A	AM A	gL-gG A				Cat. no.	Ref. no.	Cat. no.	Ref. no.	Pack
	0,16	0,26	2	2				ECRT1R10B	269024	ECRT1B10B	268996	5
	0,25	0,41	2	2				ECRT1R10C	269025	ECRT1B10C	268997	5
	0,40	0,65	2	2				ECRT1R10D	269026	ECRT1B10D	268998	5
	0,65	1,10	2	4				ECRT1R10F	269027	ECRT1B10F	268999	5
	1,00	1,50	4	6				ECRT1R10G	269028	ECRT1B10G	269000	5
	1,30	1,90	4	6	EC09			ECRT1R10H	269029	ECRT1B10H	269001	5
	1,80	2,70	6	10	EC12			ECRT1R10J	269030	ECRT1B10J	269002	5
	2,50	4,00	8	16	EC18			ECRT1R10K	269031	ECRT1B10K	269003	5
	4,00	6,30	12	20				ECRT1R10L	269032	ECRT1B10L	269004	5
	5,50	8,50	16	20				ECRT1R10M	269033	ECRT1B10M	269005	5
	8,00	12,00	20	25				ECRT1R10N	269034	ECRT1B10N	269006	5
	10,00	16,00	25	35				ECRT1R10P	269035	ECRT1B10P	269007	5
	14,50	18,00	32	50	EC25			ECRT1R10S	269036	ECRT1B10S	269008	5
	17,50	22,00	40	63	EC32			ECRT1R10T	269037	ECRT1B10T	269009	5
	21,00	26,00	40	63	EC40							
	25,00	32,00	50	80				ECRT2R10N	268115	ECRT2B10N	268103	5
	30,00	40,00	63	100				ECRT2R10P	268116	ECRT2B10P	268104	5
								ECRT2R10S	268117	ECRT2B10S	268105	5
								ECRT2R10T	268118	ECRT2B10T	268106	5
								ECRT2R10U	268119	ECRT2B10U	268107	5
								ECRT2R10V	268120	ECRT2B10V	268108	5
								ECRT2R10W	268121	ECRT2B10W	268109	5



Accessories

Use with	Description	Cat. no.	Ref. no.	Pack
Base for separate mounting				
ECRT1	DIN EN500022-35	ECRT1BS	268963	1
ECRT2	DIN EN500022-35	ECRT2BS	268964	1
Push-button with flexible cable				
ECRT1	0,5 m	RTXS	113855	1
	1 m	RTXSL	113856	1
	backside reset	RTXBS	108864	1
Remote electrical reset				
ECRT1	12 Vac/dc	RTXRRB	113661	1
ECRT2	24 Vac/dc	RTXRRD	113662	1
	48 Vac/dc	RTXRRG	113663	1
	110-240V ac/dc	RTXRRJ	113664	1
	220/415V ac/dc	RTXRRN	113665	1
	380/480V ac/dc	RTXRRU	113666	1

Order codes

A

B

C

X



Notes

Global contactor

A

B

C

X



C.2	Conformity to standards	
C.3	Electrical endurance	
C.4	Power circuit	
C.5	Control circuit - Alternating current	
	Direct current	
C.6	Built-in auxiliary contacts	
	Auxiliary contact blocks	
C.7	Mechanical latch blocks	Advantages and Benefits
	Terminal capacity	
C.8	Thermal mechanical overload relays	
C.9	Technical data	Order codes
C.10	Coordination tables	Technical data
C.14	Contact sequence	
C.16	Terminal numbering according to EN 50011	Numerical index
C.21	Terminal numbering according to EN 50012	
C.24	Dimensions and weights	

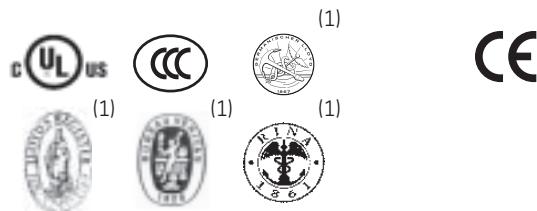
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Conformity to standards

IEC/EN 60947-1	GB14048.4
IEC/EN 60947-4-1	UL508
IEC/EN 60947-5-1	UL486E
IEC/EN 60947-5-4	CSA2.22-14
EN50011	NF F16 101/102
EN50012	
EN50005	

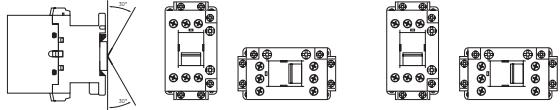
Approvals/Marking



(1) In progress

Mounting positions

Installation capabilities



With de-rating values



-10% connection voltage -10% disconnection voltage with same rated power, data compared to vertical mounting



+10% disconnection voltage +10% connection voltage with same rated power, data compared to vertical mounting

Ambient conditions

Storage temperature	-55°C to +80°C
Operation temperature	-40°C to +55°C
Altitude	<2000m

From 100% to 110% of rated control voltage, no auxiliary blocks

Climatic resistance (IEC 68-2)

Continuous tests 40 / 125 / 56

Cold (72h)

Temperature -40°C

Dry heat (96h)

Temperature +125°C

Relative humidity < 50%

Humid heat (56h)

Temperature +40°C

Relative humidity 95%

Cyclic test (6 cycles)

Humid heat

First half-cycle

Low temperature +25°C

Relative humidity 93%

Second half-cycle

Low temperature +55°C

Relative humidity 95%

Terminal capacity and tightening torque

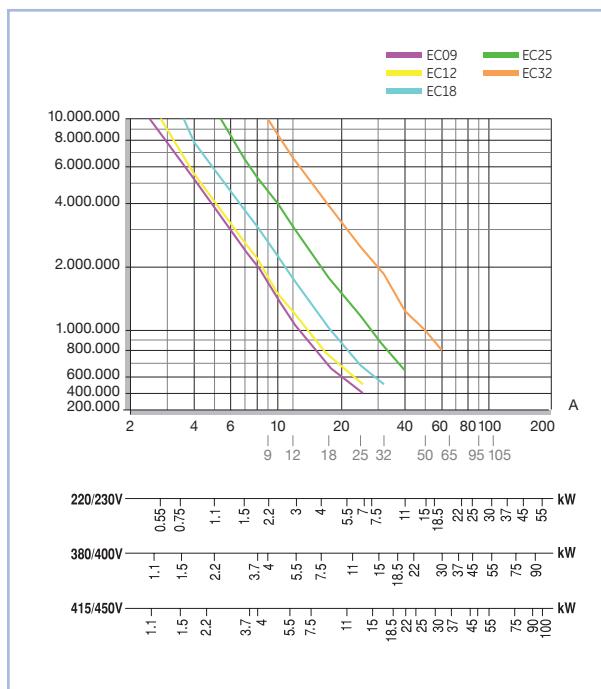
Conventional Thermal Current (I _{th})	(A)	Head type	EC09 - EC18			EC25	EC32 - EC40
			32	45	60 ^[1]		
Box terminals							
Solid, stranded and finely stranded w/o end sleeve	(mm ²)	Slot & PZ2	0.75..6	0.75..10	0.75..16		
Finely stranded with end sleeve	(mm ²)	Slot & PZ2	0.75..6	0.75..10	0.75..16		
Finely stranded w/o end sleeve	(mm ²)	Slot & PZ2	0.75..6	0.75..10	0.75..16		
AWG wires			18..10	18..8	18..6		
Tightening torque	(Nm) (Lb x in.)		2.2 / 20	2.2 / 20	2.2 / 20		
Finely stranded w/o end sleeve							
AWG wires	(mm ²)	Slot & PZ2	0.75..6	0.75..10	0.75..16		
Tightening torque	(Nm) (Lb x in.)		2.2 / 20	2.2 / 20	2.2 / 20		
Finely stranded with end sleeve							
AWG wires	(mm ²)	Slot & PZ2	0.75..6	0.75..10	0.75..16		
Tightening torque	(Nm) (Lb x in.)		2.2 / 20	2.2 / 20	2.2 / 20		
Ring terminals							
(acc. IEC/EN 60947-1)	(Ø 1)		3.6	4.2	4.2		
	(A)		8	10 ^[2]	10		
Tightening torque	(Nm) (Lb x in.)		1.6 / 15	1.6 / 15	1.6 / 15		

(1) 50A for ring terminal version

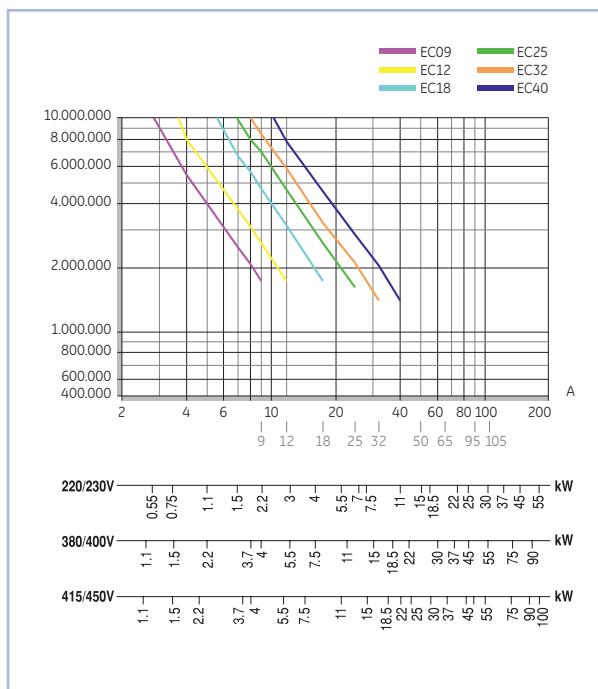
(2) Derate 15kW -3P device to 11kW -3P

Electrical endurance

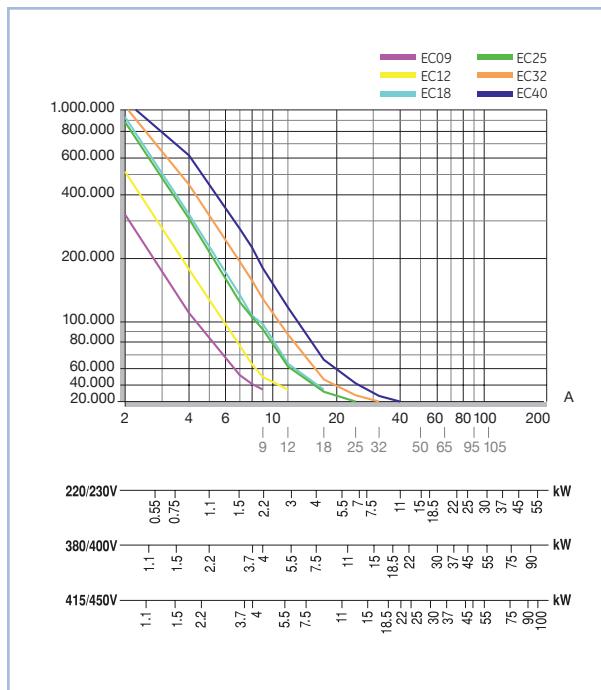
Category AC1 (3P & 4P contactors)



Category AC3 (3P contactors)



Category AC4 (3P contactors)



Power circuit

		EC 09	EC 12	EC18	EC 25	EC 32	EC 40
Three pole version							
Rated thermal current I_{th} at $\theta \leq 55^\circ\text{C}$	(A)	25	25	32	45	60 ⁽¹⁾	60 ⁽¹⁾
Rated operational current I_e AC-3	(A)	9	12	18	25	32	40
Rated operational voltage U_e	(V)			690V acc. IEC 60947-4-1 / 600V acc. UL-CSA			
Four pole version							
Rated thermal current I_{th} at $\theta \leq 55^\circ\text{C}$	(A)	-	25	32	45	60 ⁽¹⁾	-
Rated operational voltage U_e	(V)			690V acc. IEC 60947-4-1 / 600V acc. UL-CSA			
Three and four pole version							
Rated insulation voltage U_i	(V)			1000V acc. IEC 60947-4-1 / 600V acc. UL-CSA			
Maximum continuous current AC-1	(A)	25	25	32	45	60 ⁽¹⁾	60 ⁽¹⁾
Frequency limits	(Hz)	25...400	25...400	25...400	25...400	25...400	25...400
Making capacity (RMS) (acc. IEC- 60947) $U = 500\text{V}$	(A)	220	220	220	315	520	520
Breaking capacity (RMS) (acc. IEC-60947)							
$U_e = 500\text{V}$	(A)	220	220	220	315	520	520
$U_e = 690\text{V}$	(A)	120	120	120	144	232	232
Short-time current from cold state							
1s	(A)	570	570	570	790	1265	1265
5s	(A)	254	254	254	355	565	565
10s	(A)	180	180	180	250	400	400
30s	(A)	104	104	104	145	231	231
1min	(A)	74	74	74	102	164	164
3min	(A)	42	42	42	60	95	95
Recovery time	(min)	10	10	10	10	10	10
Protection against short-circuit with fuses without thermal overload relay							
Coordination type 1							
gL-gG ($U = 500\text{V}, 50\text{kA}$ or $U = 415\text{V}, 80\text{kA}$)	(A)	40	40	50	63	80	80
Coordination type 2							
gL-gG ($U = 500\text{V}, 50\text{kA}$ or $U = 415\text{V}, 80\text{kA}$)	(A)	25	35	40	50	63	80
Average Impedance per pole	(mΩ)	2.25	2.25	2.25	1.6	1.2	1.2
Power dissipation per pole							
AC-1	(W)	1.41	1.41	2.30	3.24	4.32	4.32
AC-3	(W)	0.18	0.32	0.73	1.00	1.23	1.92
Insulation resistance							
Between adjacent poles	(MΩ)	>10	>10	>10	>10	>10	>10
Between poles and earth	(MΩ)	>10	>10	>10	>10	>10	>10
Between input and output	(MΩ)	>10	>10	>10	>10	>10	>10

(1) 50 Amps for ring terminal version



Control circuit - Alternating current

		EC09 up to EC18	EC25 up to EC40
Rated insulation voltage U_i	(V)	1000	1000
Standard voltages U_s 50Hz	(V)	12-600	12-600
Standard voltages U_s 60Hz	(V)	12-600	12-600
Voltage operating limits 50/60Hz coils			
Operating 50Hz xU_s		0.8 - 1.1	0.8 - 1.1
Operating 60Hz xU_s		0.85 - 1.1	0.85 - 1.1
Pick-up 50Hz xU_s		0.5...0.8	0.6...0.8
Pick-up 60Hz xU_s		0.85 - 1.1	0.85 - 1.1
Drop out 50Hz xU_s		0.35...0.55	0.30...0.55
Drop out 60Hz xU_s		0.35...0.55	0.30...0.55
Maximum consumption bifrequency coils (cold state)			
Magnetic circuit closed (50Hz/60Hz)	(VA)	9.8 / 6.8	11.4 / 7.6
Magnetic circuit opened (50Hz/60Hz)	(VA)	70.1 / 68.2	144 / 138
Power factor			
Magnetic circuit closed $\cos \varphi$		0.24	0.20
Magnetic circuit opened $\cos \varphi$		0.85	0.70
Opening and closing times			
Values between +10% U_s and -20% U_s			
Making time on energisation (NO)	(ms)	10 - 25	10 - 25
Breaking time on de-energisation (NO)	(ms)	5 - 15	5 - 15
Values at U_s			
Making time on energisation (NO)	(ms)	10 - 25	10 - 25
Breaking time on de-energisation (NO)	(ms)	5 - 15	5 - 15
Mechanical endurance			
Bifrequency coils (at 50Hz)	10^6 ops.	10	10
Maximum rate			
AC-1 at rated power	ops./h	1200	1200
AC-2 at rated power	ops./h	1200	1000
AC-3 at rated power	ops./h	1200	1000
AC-4 at rated power	ops./h	360	240
No load	ops./h	7200	7200

Control circuit - Direct current

		Coils with Wide voltage range		Coils with Low consumption	
		EC09 up to EC18	EC25 up to EC40	EC09 up to EC18	EC25 up to EC40
Rated insulation voltage U_i	(V)	1000	1000	1000	1000
Standard voltages U_s DC	(V)	12 - 400	12 - 400	12 - 400	12 - 400
Operating Limits					
Operating xU_s	(VDC)	0.70 - 1.25	0.70 - 1.25	0.80 - 1.1	0.80 - 1.1
Pick Up xU_s	(VDC)	0.45 - 0.65	0.45 - 0.65	0.48 - 0.68	0.48 - 0.68
Drop Out xU_s	(VDC)	0.12 - 0.30	0.12 - 0.30	0.12 - 0.30	0.12 - 0.30
Maximum consumption at U_s					
Magnet circuit open and closed (cold state)	(W)	8	9	3.3	4.3
Opening and closing times					
Values between +10% U_s and -20% U_s					
Making time on energisation (NO)	(ms)	33 - 78	35 - 154	47 - 173	48 - 96
Breaking time on de-energisation (NO)	(ms)	14 - 18	15 - 26	12 - 15	8 - 26
Values at U_s					
Making time on energisation (NO)	(ms)	33 - 78	35 - 66	44 - 83	33 - 75
Breaking time on de-energisation (NO)	(ms)	14 - 18	15 - 24	13 - 20	12 - 24
Mechanical endurance		10^6 ops.	10	10	10
Maximum rate					
AC-1 at rated power	ops./h	1200	1200	1200	1200
AC-2 at rated power	ops./h	1200	1000	1200	1000
AC-3 at rated power	ops./h	1200	1000	1200	1000
AC-4 at rated power	ops./h	360	240	360	240
No load	ops./h	7200	7200	7200	7200



Built-in auxiliary contacts

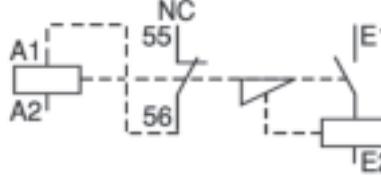
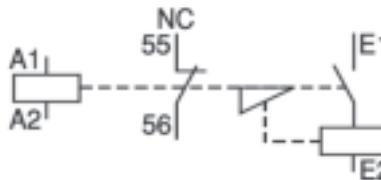
		EC09 up to EC25
Rated insulation voltage U_i according to IEC 60947	(V)	1000
Rated thermal current I_{th} at $\theta \leq 55^\circ\text{C}$	(A)	10
Making capacity (r.m.s.) acc. to IEC 60947		
AC-15 $U_e \leq 400\text{V}, 50/60\text{Hz}$	(A)	105
DC-13 $U_e \leq 220\text{Vdc}$	(A)	105
Breaking capacity (r.m.s.) acc. to IEC 60947		
AC-15 $U_e \leq 400\text{V}, 50/60\text{Hz}$	(A)	105
DC-13 $U_e \leq 220\text{Vdc}$	(A)	2
AC-15 rated voltage and current U_e-i_e according to IEC	(V-A)	110/120-10 220/230-10 380/400-6 415/450-5 500-4 690/660-2
according to UL, CSA		A600
DC-13 rated voltage and current U_e-i_e according to IEC	(V-A)	24-6 48-4 110-2 220-0.7 440-0.35
according to UL, CSA		Q600
Electrical endurance	10^6 ops.	0.2
Minimum operational power (operational safety)		17 V - 5mA
Short-circuit protection Max. fuse class gl-gG without welding	(A)	10
Insulation resistance Between contacts	(MΩ)	
Between contacts and earth	(MΩ)	>10
Guaranteed no overlap between NO and NC contacts		
Space		1.3mm
Impedance of the contacts	(MΩ)	2.7

Auxiliary contact blocks

		ECFA/ECLA
Rated insulation voltage U_i according to IEC 60947	(V)	1000
Rated thermal current I_{th} at $\theta \leq 55^\circ\text{C}$	(A)	10
Making capacity (I_{eff}) according to IEC 60947		
AC-15 $U_e \leq 400\text{V}, 50/60\text{Hz}$	(A)	60
DC-13 $U_e \leq 220\text{Vdc}$	(A)	60
Breaking capacity (I_{eff}) according to IEC 60947		
AC-15 $U_e \leq 400\text{V}, 50/60\text{Hz}$	(A)	60
DC-13 $U_e \leq 220\text{V, DC}$	(A)	0.95
AC-15 rated voltage and current U_e-i_e according to IEC	(V-A)	110/120-6 220/230- 6 380/400-4 415/450-3.5 500-2.5 690/660-1.5
according to UL, CSA		A600
DC-13 rated voltage and current U_e-i_e according to IEC	(V-A)	24-4 48-2 110-0.7 220-0.3 440-0.15
according to UL, CSA		Q600
Electrical endurance	10^6 ops.	0.2
Mechanical endurance	10^6 ops.	10
Minimum operational current (operational safety)		17.5 V-mA
Short-circuit protection Max. fuse class gl-gG without welding	(A)	10
Insulation resistance Between contacts	(MΩ)	
Between contacts and earth	(MΩ)	>10
Guaranteed no overlap between NO and NC contacts		
Space		1.6mm for ECFA / 2.2mm for ECLA
Impedance of the contacts	(MΩ)	2.7



Mechanical latch blocks

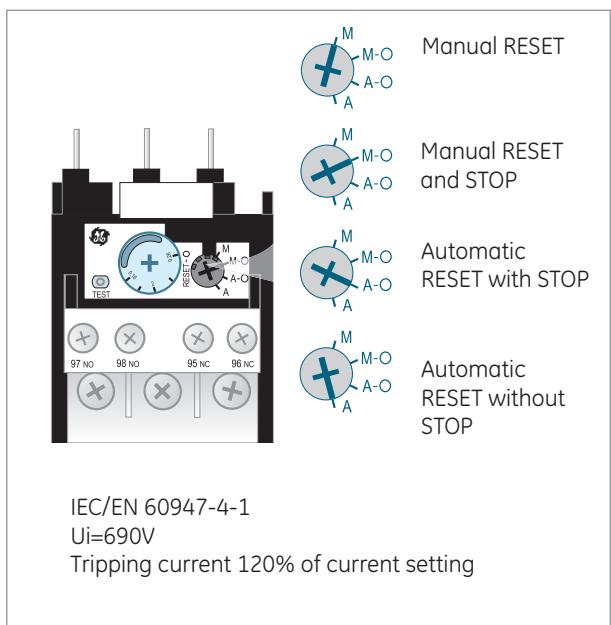
Rated insulation voltage U_i	(V)	1000
Standard voltages U_s : 50 to 60Hz and DC	(V)	24-660 & 24-440
Operating limits		85% to 110%
Consumption for unlatching (auto cut-out)		30W / 25VA
24 to 72V		?
110 to 440V		18
Electrical unlatching control		15 – 25
Minimum impulse	(ms)	Auto cut by internal contact
Maintained		By manual push-button
Manual unlatching control		
Electrical making control		40 (auto cut)
Minimum pulse	(ms)	By manual push-button
Manual making control		
Auxiliary contact NC		
AC-15 utilisation according to IEC	(V-A)	110/120-6 220/230-6 380/400-4 415/450-3.5 500-2.5 690/660-1.5
according to UL/CSA		A600
DC-13 utilisation according to IEC	(V-A)	24-4 48-2 110-0.7 220-0.3 440-0.15
according to UL/CSA		Q600
Mechanical endurance		?
Wiring diagrams		
Alternating current		
Alternating current / Direct current		

Terminal capacity

Terminal capacity		Screw plate ECMLSA,ECMLSD
Flexible wire	(mm ²)	2x0.5...2.5
AWG wire	(mm ²)	2x20..14
Standard gauge		A3
Tightening torque	(Nm/Lb-in)	1.1 / 10

Thermal mechanical overload relays for contactors from 0.16 to 40A

- Control circuit up to 690Vac
- Power circuit: ECRT1, ECRT2: up to 690V
- Thermal protection against balanced overload.
- Three-pole differential (phase unbalance protection).
- Automatic ambient temperature compensation.
- Front mounted selector for choosing utilization current.
- Manual trip lever (tripping test).
- Tripping indicator (0-1).
- IP20 protection
- Reset button, 4 positions:
 - Manual RESET
 - Manual RESET and STOP
 - Automatic RESET with STOP
 - Automatic RESET without STOP



Standards

IEC 7 EN 60947-4-1

IEC EN 60947-5-1

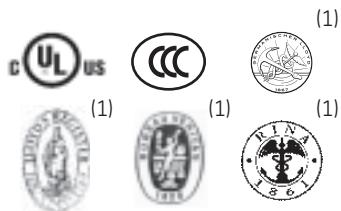
GB14048.4

UL508

CSA22.2/14

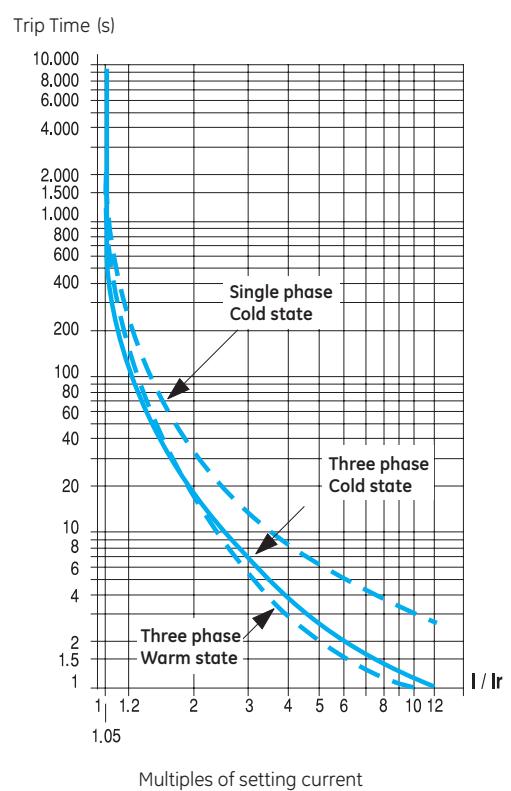
VDE 0660

Approvals/Marking



(1) In progress

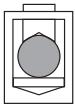
Tripping curves



Thermal mechanical overload relays

Class	10A
Setting range (A)	0.16...40
Suitable for	All Efficor contactors
Main circuit	
Rated insulation voltage (V)	690
Frequency limits (Hz)	0-400
Control circuit	
Rated insulation voltage (IEC60947-4) Ui (V)	690
Rated thermal current Ith (A)	10
Operation current	
AC-15 - rated voltage and current Ue-le (V-A)	110/120-3 220/230-2 380/400-1 480/500-0.8 690/660-0.3
DC-13 - rated voltage and current Ue-le (V-A)	24-2 48-1.4 110-0.6 220-0.3 440-0.1
Utilisation according UL and CSA	B600-Q600
Protective fuse type gl (A)	10
Terminal capacity (mm²)	0.75..10
Tightening capacity (Nm)	2.2 / 20

Terminal capacity

Clamp terminal - Flexible	(mm²)		0.75..10 18.8 B6 2.2 / 20 4.2
Clamp terminal - Standard gauge			
Ring terminal - A	(mm)		10
Tightening torque	(Nm)		1.4 / 12

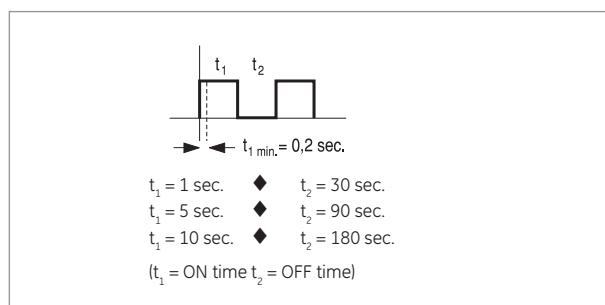
Ambient conditions

Storage temperature	-55°C to +80°C
Operation temperature (compensated)	-25°C to +60°C
Altitude <2000 m	without any changes in characteristics
Relative humidity	40°C, 95% no cond.
Protection treatment	Salt spray test

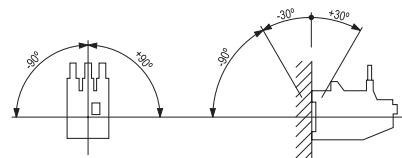
Remote electrical reset

Power consumption	
AC	100VA
DC	100W

Coils not suitable for continuous operating duty



Mounting positions



Inclination angle axis Y and Z: $\pm 30^\circ$

Coordination table Type 2 with 50kA at 415V and 500V

Thermal Overload Relay	Current Setting range (Aac)	415Vac										500Vac										
		With MCCB as SCPD					With Fuse MMS as SCPD					With MCCB as SCPD					With Fuse MMS as SCPD					
		SCPD		Contactor			SCPD (MCCB)		Contactor			SCPD		Contactor			SCPD		Contactor			
		Type	Rat. (Aac)	Type	Rat. (Aac)	Type	Type	Rat. (Aac)	Type	Rat. (Aac)	Type	Type	Rat. (Aac)	Type	Rat. (Aac)	Type	Rat. (Aac)	Type	Rat. (Aac)	Type	Rat. (Aac)	
ECRT1B10B	0.16 - 0.26	0.06	0.21	1	80	MMS	0.26	EC09A3	9	-	-	-	-	-	0.06	0.17	1	50	MMS	0.26	EC09A3	9
ECRT1B10C	0.25 - 0.41	0.09	0.31	1	80	Fuse	2	EC09A3	9	-	-	-	-	-	0.12	0.33	1	50	Fuse	2	EC09A3	9
ECRT1B10D	0.4 - 0.65	0.12	0.4	1	80	Fuse	4	EC09A3	9	-	-	-	-	-	0.18	0.48	1	50	Fuse	4	EC09A3	9
ECRT1B10F	0.65 - 1.1	0.25	0.8	1	80	Fuse	4	EC09A3	9	-	-	-	-	-	0.25	0.66	1	50	Fuse	4	EC09A3	9
ECRT1B10G	1.0 - 1.5	0.37	1.1	1	80	Fuse	6	EC09A3	9	-	-	-	-	-	0.55	1.2	1	50	Fuse	6	EC09A3	9
ECRT1B10H	1.3 - 1.9	0.55	1.5	1	80	Fuse	6	EC09A3	9	-	-	-	-	-	0.75	1.5	1	50	Fuse	6	EC09A3	9
ECRT1B10J	1.8 - 2.7	0.75	1.9	1	80	Fuse	6	EC09A3	9	-	-	-	-	-	1.1	2.1	1	50	Fuse	6	EC09A3	9
ECRT1B10K	2.5 - 4.0	1.5	3.4	1	80	Fuse	10	EC09A3	9	-	-	-	-	-	1.5	2.6	1	50	Fuse	10	EC09A3	9
ECRT1B10L	4.0 - 6.3	2.2	4.5	1	80	Fuse	16	EC09A3	9	-	-	-	-	-	3	5.3	1	50	Fuse	16	EC09A3	9
ECRT1B10M	5.5 - 8.5	3	6.5	1	80	Fuse	20	EC09A3	9	-	-	-	-	-	3.7	6	1	50	Fuse	20	EC09A3	9
ECRT1B10N / ECRT2B10N	8.0 - 12	4	8	1	80	Fuse	25	EC09A3	9	MCCB	12.5	EC25A3	25	5.5	9	1	50	Fuse	25	EC09A3	9	
ECRT1B10P / ECRT2B10P	10.0 - 16.0	5.5	11	1	80	Fuse	35	EC012A3	12	MCCB	12.5	EC25A3	25	7.5	12	1	50	Fuse	35	EC12A3	12	
ECRT1B10S / ECRT2B10S	14.5 - 18.0	7.5	14.8	1	80	Fuse	40	EC018A3	18	MCCB	20	EC25A3	32	10	15.5	1	50	Fuse	40	EC18A3	18	
ECRT1B10T / ECRT2B10T	17.5 - 22	-	-	-	-	-	-	-	-	-	-	-	-	11	18.4	3	50	Fuse	40	EC18A3	18	
ECRT2B10U	21.0 - 26	11	21	3	80	Fuse	50	EC025A3	25	MCCB	30	EC25A3	32	15	23	3	50	Fuse	50	EC25A3	25	
ECRT2B10V	25.0 - 32.0	15	28	3	80	Fuse	63	EC032A3	32	MCCB	30	EC32A3	32	17.5	26.5	3	50	Fuse	63	EC32A3	32	
ECRT2B10W	30.0 - 40	18.5	35	3	80	Fuse	80	EC040A3	40	MCCB	50	EC40A3	40	22	33	3	50	Fuse	80	EC40A3	40	

Thermal overload relays, Trip Class: 10A

Rated operational voltage: 415Vac, 500Vac

Rated insulation voltage: 690Vac

Rated frequency: 50Hz.

Rated duty: Eight hour duty

Pollution degree: 3

Rated conditional short-circuit protection device current: 80kA at 415Vac; 50kA at 500Vac



Surion GPS High breaking capacity (Thermal Magnetic). Coordination Type 2 - 65kA at 380/400 & 415V

Motor ⁽¹⁾			Manual Motor Starter			Contactor	Box clamp	Ring Terminal		Links	
Rated Power	Rated current (A)		Cat.No.	Rated current (In)	Thermal current	Magnetic current	Series	Smallest wire Cu (pvc) ⁽²⁾	Smallest wire Cu (pvc) ⁽²⁾	Minimum frontal electrical safety clearance	Cat.No.
kW	380/400V	415V		(A)	Setting range (A)	(A)		380/415V (mm ²)	380/415V (mm ²)	(mm)	
0.06	0.23	0.21	GPS1BHAB	0.25	0.16-0.25	3.2	EC9A..	0.75	0.75	20	ECM1AL25
0.09	0.34	0.31	GPS1BHAC	0.4	0.25-0.4	5.2	EC9A..	0.75	0.75	20	ECM1AL25
0.12	0.44	0.4	GPS1BHAD	0.63	0.4-0.63	8.2	EC9A..	0.75	0.75	20	ECM1AL25
0.18	0.65	0.63	GPS1BHAE	1	0.63-1	13	EC9A..	0.75	0.75	20	ECM1AL25
0.25	0.9	0.8	GPS1BHAE	1	0.63-1	13	EC9A..	0.75	0.75	20	ECM1AL25
0.37	1.25	1.1	GPS1BHAF	1.6	1-1.6	20.5	EC9A..	0.75	0.75	20	ECM1AL25
0.55	1.6	1.5	GPS1BHAF	1.6	1-1.6	20.5	EC9A..	0.75	0.75	20	ECM1AL25
0.75	2	1.9	GPS1BHAG	2.5	1.6-2.5	32.5	EC9A..	0.75	0.75	20	ECM1AL25
1.1	2.6	2.5	GPS1BHAH	4	2.5-4	52	EC9A..	0.75	0.75	20	ECM1AL25
1.5	3.5	3.4	GPS1BHAH	4	2.5-4	52	EC9A..	0.75	0.75	20	ECM1AL25
2.2	5	4.5	GPS1BHAJ	6.3	4-6.3	82	EC9A..	0.75	0.75	20	ECM1AL25
3	7	6.5	GPS1BHAK	10	6.3-10	130	EC9A..	0.75	0.75	20	ECM1AL25
4	9	8	GPS1BHAK	10	6.3-10	130	EC9A..	0.75	0.75	20	ECM1AL25
5.5	12	11	GPS1BHAK	13	9-1.3	169	EC12A..	0.75	0.75	20	ECM1AL25
7.5	-	14	GPS1BHAKM	16	11.0-16	208	EC18A..	0.75	0.75	20	ECM1AL25
11	16	-	GPS1BHAP	25	19-25	325	EC25A..	0.75	0.75	20	ECM1AL25
15	22.5	21	GPS1BHAR	32	24-32	416	EC32A..	0.75	0.75	20	ECM1AL32
18.5	30	28	GPS1BHAS	40	28-40	520	EC40A..	0.75	0.75	20	ECM1AL32

Surion GPS High breaking capacity (Only Magnetic). Coordination Type 2 - 65kA at 380/400 & 415V

Motor ⁽¹⁾			Manual Motor Starter			Contactor	Box clamp	Ring Terminal		Links	
Rated Power	Rated current (A)		Cat.No.	Rated current (In)	Thermal current	Magnetic current	Series	Smallest wire Cu (pvc) ⁽²⁾	Smallest wire Cu (pvc) ⁽²⁾	Minimum frontal electrical safety clearance	Cat.No.
kW	380/400V	415V		(A)	Setting range (A)	(A)	add TOR	380/415V (mm ²)	380/415V (mm ²)	(mm)	
0.06	0.23	0.21	GPS1MHAB	0.25	0.16-0.26	3.2	EC9A..	0.75	0.75	20	ECM1AL25
0.09	0.34	0.31	GPS1BHAC	0.4	0.25-0.41	5.2	EC9A..	0.75	0.75	20	ECM1AL25
0.12	0.44	0.4	GPS1BHAD	0.63	0.4-0.65	8.2	EC9A..	0.75	0.75	20	ECM1AL25
0.18	0.65	0.63	GPS1BHAE	1	0.4-0.65	13	EC9A..	0.75	0.75	20	ECM1AL25
0.25	0.9	0.8	GPS1BHAE	1	0.65-1.1	13	EC9A..	0.75	0.75	20	ECM1AL25
0.37	1.25	1.1	GPS1BHAF	1.6	1-1.5	20.5	EC9A..	0.75	0.75	20	ECM1AL25
0.55	1.6	1.5	GPS1BHAF	1.6	1.3-1.9	20.5	EC9A..	0.75	0.75	20	ECM1AL25
0.75	2	1.9	GPS1BHAG	2.5	1.8-2.7	32.5	EC9A..	0.75	0.75	20	ECM1AL25
1.1	2.6	2.5	GPS1BHAH	4	2.5-4	52	EC9A..	0.75	0.75	20	ECM1AL25
1.5	3.5	3.4	GPS1BHAH	4	2.5-4	52	EC9A..	0.75	0.75	20	ECM1AL25
2.2	5	4.5	GPS1BHAJ	6.3	4-6.3	82	EC9A..	0.75	0.75	20	ECM1AL25
3	7	6.5	GPS1BHAK	10	5.5-8.5	130	EC9A..	0.75	0.75	20	ECM1AL25
4	9	8	GPS1BHAK	10	8.0-12	130	EC9A..	0.75	0.75	20	ECM1AL25
5.5	12	11	GPS1BHAKL	13	10.0-16	169	EC12A..	0.75	0.75	20	ECM1AL25
7.5	-	14	GPS1BHAKM	16	10.0-16	208	EC18A..	0.75	0.75	20	ECM1AL25
7.5	16	-	GPS1BHAP	16	14.5-18	325	EC18A..	0.75	0.75	20	ECM1AL25
11	22.5	21	GPS1BHAR	25	21-26	416	EC25A..	0.75	0.75	20	ECM1AL25
15	30	28	GPS1BHAR ^(a)	32	25-32	6	EC32A..	0.75	0.75	20	ECM1AL32
18.5	37	35	GPS1BHAS ^(a)	40	30-40	10	EC40A..	0.75	0.75	20	ECM1AL32

(1) Current are relevant to four pole motors not having special characteristics of torque. Inrush currents: ≤ 8 time rated current for ≤ 1s.

(2) The minimum cycle cross-sections are referred to an ambient temperature of 30°C max. in free air and are selected to withstand the maximum let-through energy and the motor rated current. Besides the user has to consider the drop voltage, the type of laying and ambient temperature.

Technical data

A

C

X

Record Plus Coordination Type 2 at 80kA at 380/400 & 415V

Motor ⁽¹⁾			MCCB				Contactor			Overload Relay	Box clamp	Ring Terminal	
Rated Power	Rated current (A)	Cat.No.	Rated current (In)	Thermal Current	Magnetic Current		Operating current	Admissible power		Setting Range	Smallest wire Cu (pvc) ⁽²⁾	Smallest wire Cu (pvc) ⁽²⁾	Min. frontal electrical safety clearance
kW	380/400V	415V	(A)	Setting range (A)	(A)	Series	A	P(kW)	Series	380/415V (mm ²)	380/415V (mm ²)	mm	
4	9	8	FD63	12.5	12.5	169	EC25A..	25	11	ECRT2	8-12	0.75	0.75
5.5	12	11	FD63	12.5	12.5	169	EC25A..	25	11	ECRT2	10-16	0.75	0.75
7.5	16	14.8	FD63	20	20	210	EC32A..	32	15	ECRT2	14.5-18	0.75	0.75
11	22.5	21	FD63	30	30	300	EC32A..	32	15	ECRT3	21-26	0.75	0.75
15	30	28	FD63	30	30	450	EC32A..	32	15	ECRT3	25-35	0.75	0.75
18.5	37	35	FD63	50	50	500	EC40A..	40	18.5	ECRT3	30-40	0.75	0.75

Record Plus Coordination Type 2 at 80kA at 500/525V

Motor ⁽¹⁾			MCCB				Contactor			Overload Relay	Box clamp	Ring Terminal	
Rated Power	Rated current (A)	Cat.No.	Rated current (In)	Thermal Current	Magnetic Current		Operating current	Admissible power		Setting Range	Smallest wire Cu (pvc) ⁽²⁾	Smallest wire Cu (pvc) ⁽²⁾	Min. frontal electrical safety clearance
kW	380/400V	415V	(A)	Setting range (A)	(A)		A	P(kW)	Series	380/415V (mm ²)	380/415V (mm ²)	mm	
7.5	12	FD63	12.5	12.5	-	EC32A..	32	15	ECRT2	10-19	0.75	0.75	20
11	18.4	FD63	20	20	-	EC32A..	32	18.5	ECRT3	17.5-25	0.75	0.75	20
15	23	FD63	30	30	-	EC40A..	40	18.5	ECRT3	21-29	0.75	0.75	20
18.5	29	FD63	30	30	-	EC40A..	40	18.5	ECRT3	25-35	0.75	0.75	20

(1) Current are relevant to four pole motors not having special characteristics of torque. Inrush currents: ≤ 8 time rated current for ≤ 1s.

(2) The minimum cycle cross-sections are referred to an ambient temperature of 30°C max. in free air and are selected to withstand the maximum let-through energy and the motor rated current. Besides the user has to consider the drop voltage, the type of laying and ambient temperature.



Notes

Technical data

A

B

C

X



Contact sequence

Device	Rating	Basic contactor			Built-in auxiliary			Auxiliary contact blocks - Front mounted-4P			
		NO		NC	40	.04	22	0	3	5	
3P contactors 3NO	EC09	0	3.5	5	0	3.5	5	0	2	5	
	EC12										
	EC18							0	3	5	0 1.3 5
	EC25	0	4	6	0	3.5	6	0	1.7	6	
											0 1.3 6
								0	3	6	0 1.3 6
	EC32	0	4	6							0 3 6
	EC40										0 1.3 6
								0	3	6	0 1.2 6
4P contactors 4NO	EC12										
	EC18										
											0 1.5 6
	EC09	0	3.3	5							
	EC12										
	EC18										
	EC25	0	4	6							
	EC32										
	EC40	0	2	6							
											0 2 6
Contact sequence (auxiliary contactors)											
4P contactors 4NO	ECAC09	0	3.3	5				0	3.3	5	
	ECAC12										
	ECAC18										
	ECAC25										
4P contactors 2NO+2NC	ECAC09	0	3.3	5				0	3.3	5	
	ECAC12										
	ECAC18										
	ECAC25	0	1.7	5				0	1.7	5	

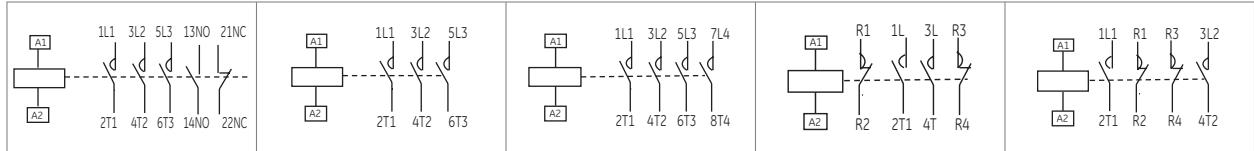


			Auxiliary contact blocks - Front mounted-2P				Auxiliary contact blocks - Front mounted-2P				
31	13	11	02	20	02	20	11				
0 3 5	0 3 5	0 3.4 5	0 3.4 5	0 3.4 5	0 3.7 5	0 3.7 5					
0 1.3 5	0 1.3 5	0 1.3 5	0 1.3 5	0 1.5 5	0 1.5 5	0 1.5 5					
0 3 6	0 3 6	0 3.2 6	0 3.2 6	0 3.2 6	0 3.8 6	0 3.8 6					
0 1.3 6	0 1.3 6	0 1.1 6	0 1.1 6	0 1.3 6	0 1.3 6	0 1.3 6					
0 3 6	0 3 6	0 3.2 6	0 3.2 6	0 3.2 6	0 3.8 6	0 3.8 6					
0 1.2 6	0 1.2 6	0 1.1 6	0 1.1 6	0 1.3 6	0 1.3 6	0 1.3 6					
		0 3.5 6	0 3.5 6	0 3.5 6	0 3.5 6	0 3.5 6					
0 1.5 6	0 1.5 6	0 1.5 6	0 1.5 6	0 1.5 6	0 1.5 6	0 1.5 6					
0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5					
0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5					
0 4 6	0 4 6	0 4 6	0 4 6	0 4 6	0 4 6	0 4 6					
0 2 6	0 2 6	0 2 6	0 2 6	0 2 6	0 2 6	0 2 6					
0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5					
0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5					
0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5	0 3.3 5					
0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5	0 1.7 5					

Terminal numbering

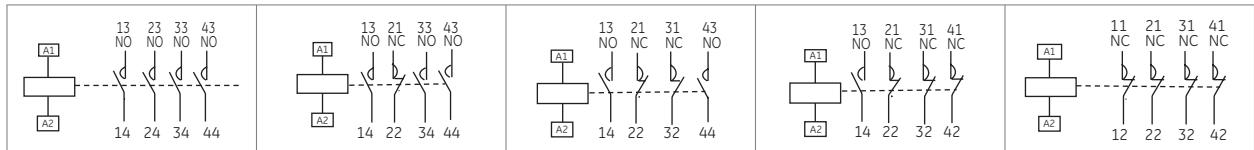
3P and 4P contactors

EC09A311..EC25A311 EC32A300..EC40A300 EC12A400..EC32A400 EC12AB00...EC25AB00 EC32AB00
 EC09D311..EC25D311 EC32D300..EC40D300 EC12D400..EC32D400 EC12DB00....EC25DB00 EC32DB00



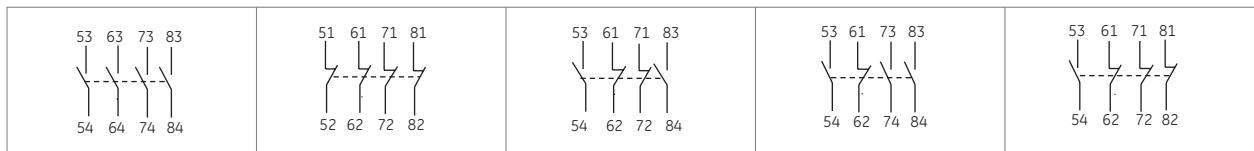
Auxiliary contactors

ECACA440 ECACA431 ECACA422 ECACA413 ECACA404
 ECACD440 ECACD431 ECACD422 ECACD413 ECACD404



Auxiliary contact blocks - Front mounting

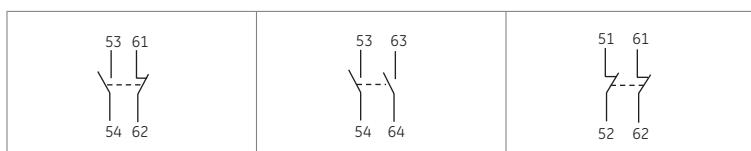
ECFA440 ECFA404 ECFA422 ECFA431 ECFA413



ECFA211

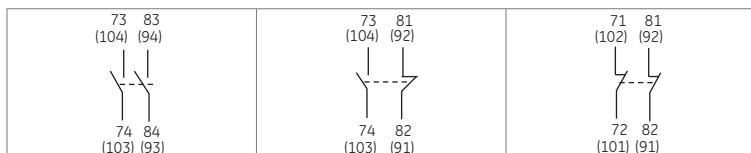
ECFA220

ECFA202



Auxiliary contact blocks - Lateral mounting

ECLA20 ECLA11 ECLA02



Mechanical and mechanical/electrical interlock

ECMI

ECMI02



Terminal numbering (continued)

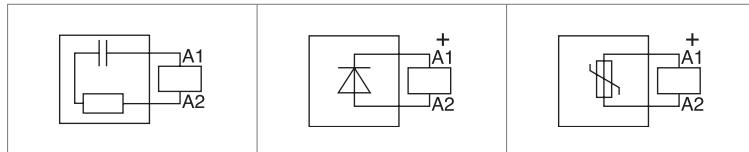
Pneumatic timer blocks

ECPTD ECPTC



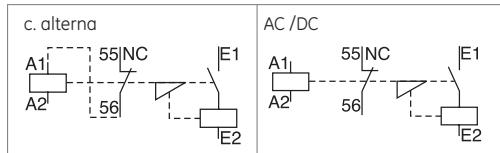
Voltage suppressor blocks

ECSURC ECSUDI ECSUVI



Mechanical latch block

ECMLA ECMLD



Terminal numbering according to EN 50011

Global contactor

A

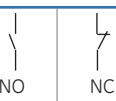
B

C

X

Auxiliary contacts

Description



Possible basic auxiliary contactors + Auxiliary contacts blocks to be added

4NO auxiliary contactor terminal combination with 2P FRONTAL block

	42E	4	2	ECACA440 ECACD440 +ECFA202	
	60E	6	0	ECACA440 ECACD440 +ECFA220	
	51E	5	1	ECACA440 ECACD440 +ECFA211	

4NO auxiliary contactor terminal combination with 4P FRONTAL block

	44E	4	4	ECACA440 ECACD440 +ECFA440	
	62E	6	2	ECACA440 ECACD440 +ECFA422	
	71E	7	1	ECACA440 ECACD440 +ECFA431	
	53E	5	3	ECACA440 ECACD440 +ECLFA413	

4NO auxiliary contactor terminal combination with LATERAL - block mounted on the RIGHT side of contactor

	42	4	2	ECACA440 ECACD440 +ECLA202	
	51	5	1	ECACA440 ECACD440 +ECLA211	
	60	6	0	ECACA440 ECACD440 +ECLA220	



Terminal numbering according to EN 50011 (continued 1)

Auxiliary contacts	Description	NO	NC	Possible basic auxiliary contactors + Auxiliary contacts blocks to be added
4NO auxiliary contactor terminal combination with LATERAL - block mounted on the LEFT side of contactor				
	42	4	2	ECACA440 ECACD440 +ECLA202
	51	5	1	ECACA440 ECACD440 +ECLA211
	6	6	0	ECACA440 ECACD440 +ECLA220
4NC auxiliary contactor terminal combination with 2P FRONTAL block				
	06E	6	0	ECACA404 ECACD404 +ECFA202
	24E	2	4	ECACA404 ECACD404 +ECFA220
	15E	5	1	ECACD404 ECACA404 +ECFA211
4NC auxiliary contactor terminal combination with 4P FRONTAL block				
	44E	4	4	ECACA404 ECACD404 +ECFA440
	08E	0	8	ECACA404 ECACD404 +ECFA404
	26E	2	6	ECACA404 ECACD404 +ECFA422
	35E	3	5	ECACA404 ECACD404 +ECFA431
	17E	1	7	ECACA404 ECACD404 +ECLFA413

Terminal numbering according to EN 50011 (continued 2)

Global contactor

Auxiliary contacts	Description	NO	NC	Possible basic auxiliary contactors + Auxiliary contacts blocks to be added
4NC auxiliary contactor terminal combination with LATERAL - block mounted on the RIGHT side of contactor				
	42	0	6	ECACA404 ECACD404 +ECLA202
	15	1	5	ECACA404 ECACD404 +ECLA211
	24	2	4	ECACA404 ECACD404 +ECLA220
4NO auxiliary contactor terminal combination with LATERAL - block mounted on the LEFT side of contactor				
	42	4	2	ECACA440 ECACD440 +ECLA202
	51	5	1	ECACA440 ECACD440 +ECLA211
	6	6	0	ECACA440 ECACD440 +ECLA220



Terminal numbering according to EN 50012

Auxiliary contacts	Description	NO	NC	Possible basic auxiliary contactors + Auxiliary contacts blocks to be added
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Terminal numbering according to EN 50012

	11E	1	1	EC09A311..EC25A311 EC09D311..EC25D311
	-	0	0	EC32A300..EC40A300 EC32D300..EC40D300

FRONT mounted auxiliary contact blocks with 2 contacts each

	13	1	3	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA202
	31	3	1	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA220
	22	2	2	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA211
	02	0	2	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA202
	20	2	0	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA220
	11	1	1	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA211

LATERAL mounted auxiliary contact blocks with 2 contacts each - RIGHT side mounted

	13	1	3	EC09A311..EC25A311 EC09D311..EC25D311 +ECLA20
	22	2	2	EC09A311..EC25A311 EC09D311..EC25D311 +ECLA11

Terminal numbering according to EN 50012 (continued 1)

Global contactor

A

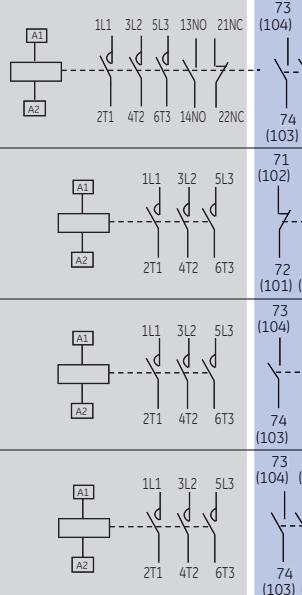
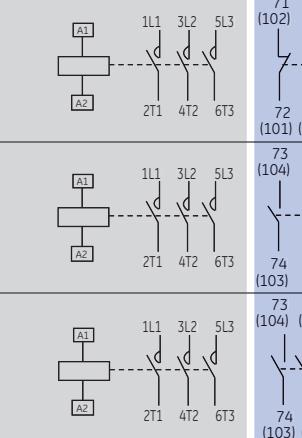
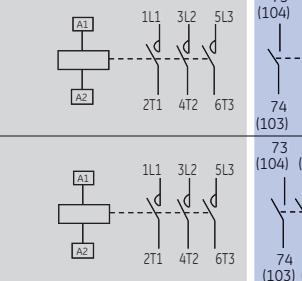
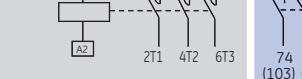
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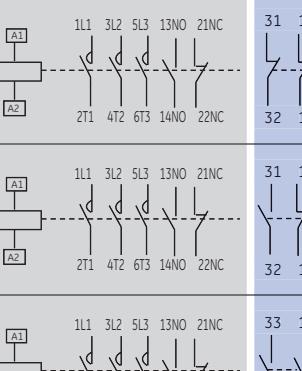
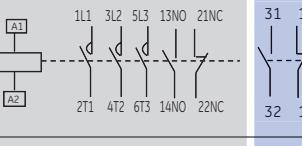
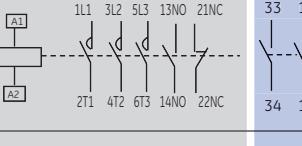
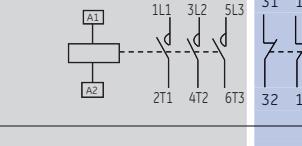
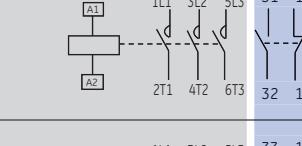
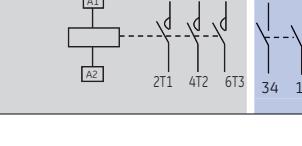
Auxiliary contacts

Description	NO	NC	Possible basic auxiliary contactors + Auxiliary contacts blocks to be added
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LATERAL mounted auxiliary contact blocks with 2 contacts each - RIGHT side mounted (continued)

	31	3	1	EC09A311..EC25A311 EC09D311..EC25D311 +ECLA02	
	02	0	2	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA02	
	11	1	1	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA02	
	20	2	0	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA02	

LATERAL mounted auxiliary contact blocks with 2 contacts each - LEFT side mounted

	13	1	3	EC09A311..EC25A311 EC09D311..EC25D311 +ECLA02	
	22	2	2	EC09D311..EC25D311 EC09A311..EC25A311 +ECLA11	
	31	3	1	EC09A311..EC25A311 EC09D311..EC25D311 +ECLA20	
	02	0	2	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA02	
	11	1	1	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA11	
	20	2	0	EC32A300..EC40A300 EC32D300..EC40D300 +ECLA20	



Terminal numbering according to EN 50012 (continued 2)

Auxiliary contacts	Description	NO	NC	Possible basic auxiliary contactors + Auxiliary contacts blocks to be added
FRONT mounted auxiliary contact blocks with 4 contacts each				
	51	5	1	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA440
	15	1	5	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA404
	33	3	3	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA422
	42	4	2	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA431
	24	2	4	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA413
	40	4	0	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA440
	04	0	4	EC09A311..EC25A311 EC09D311..EC25D311 +ECFA404
	22	2	2	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA422
	31	3	1	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA431
	13	1	3	EC32A300..EC40A300 EC32D300..EC40D300 +ECFA413

Technical data

A

B

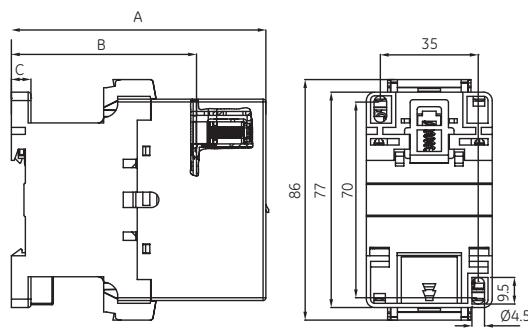
C

X



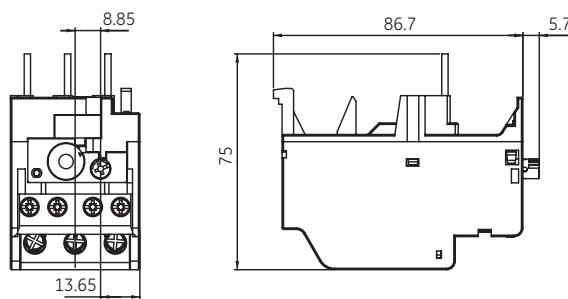
Dimensions and weights

Contactors

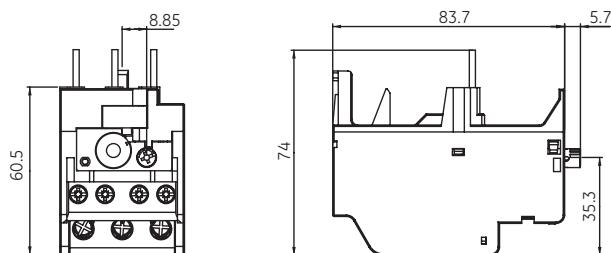


Dimensions in mm	EC09A3 - EC18A3	EC25A3	EC32A3 - EC40A3	EC09D3 - EC18D3	EC25D3	EC32D3 - EC40D3
A	92	97	102	102	110	115
B	66.2	66.2	67.2	76.2	80.2	81.2
C	7	7	7	7	7	7
Weight in g	350	490	530	620	700	740

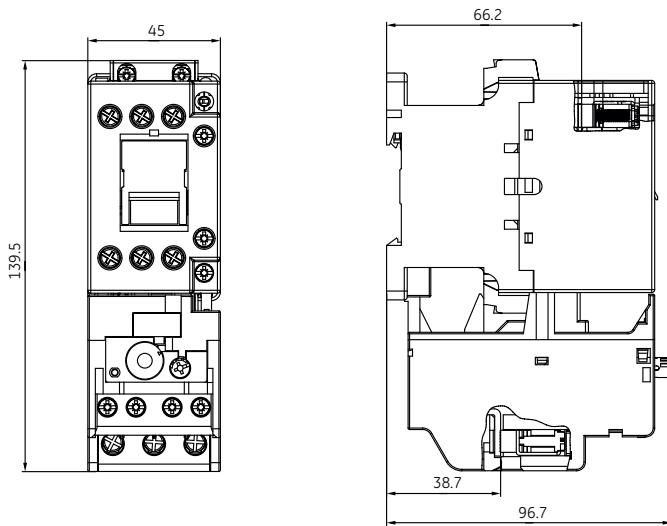
Thermal overload relay ECRT1
186 g



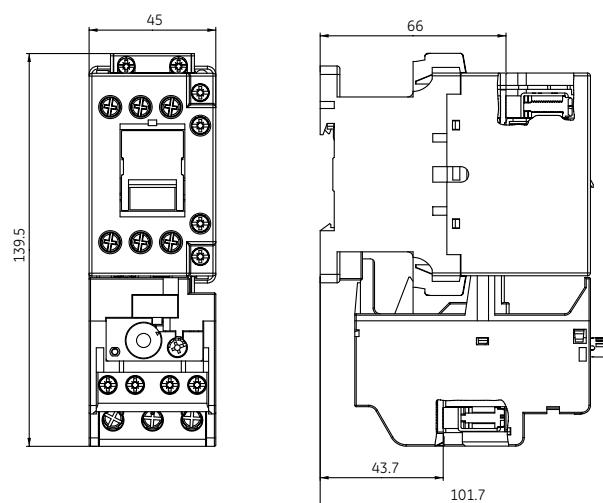
Thermal overload relay ECRT2
194 g



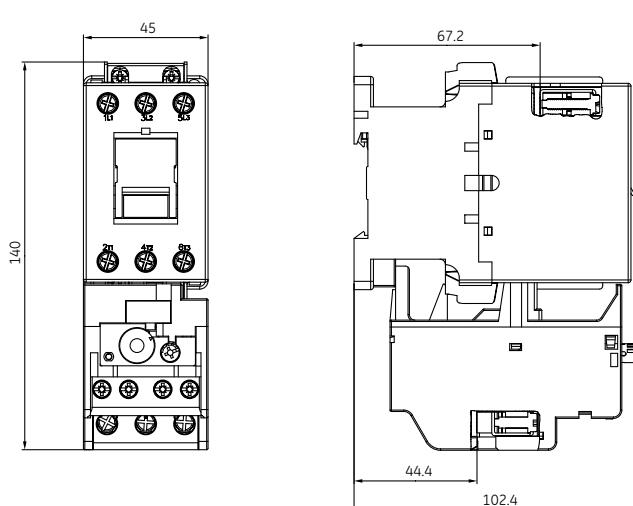
Combination of contactor EC09A-12A-18A and thermal overload relay ECRT1
536 g



Combination of contactor EC25A and thermal overload relay ECRT2
680 g

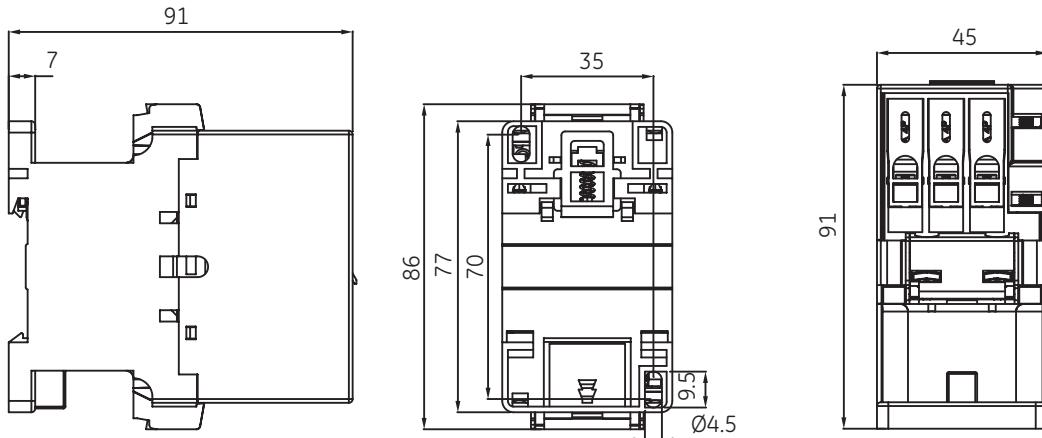


Combination of contactor EC32A-40A and thermal overload relay ECRT2
790 g

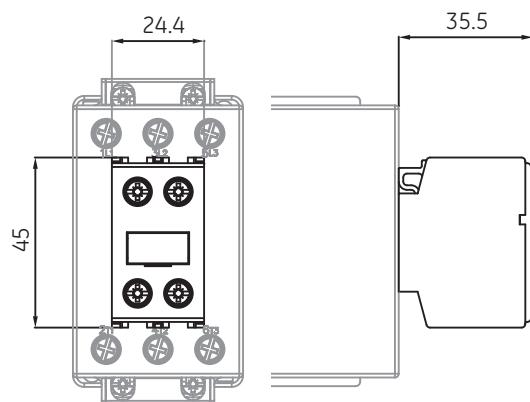


Dimensions and weights

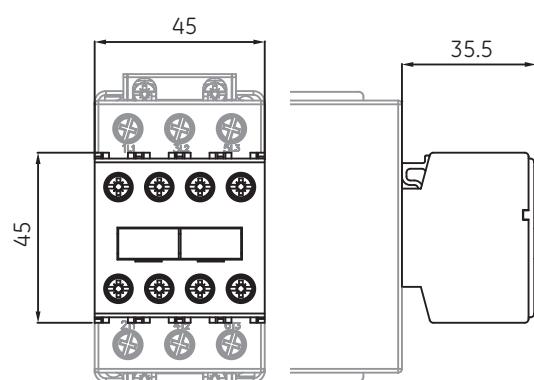
Auxiliary contactors ECACA
330 g



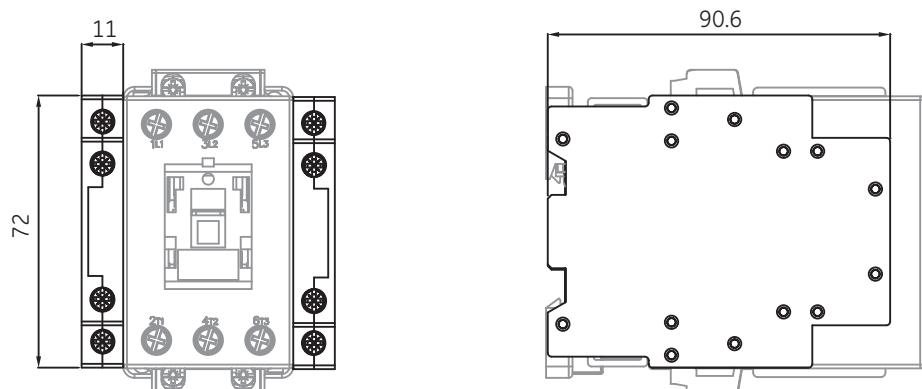
Frontal auxiliary contact block 2P ECFA2S
42 g



Frontal auxiliary contact block 4P ECFA4S
74 g



Lateral auxiliary contact block ECLA
70 g



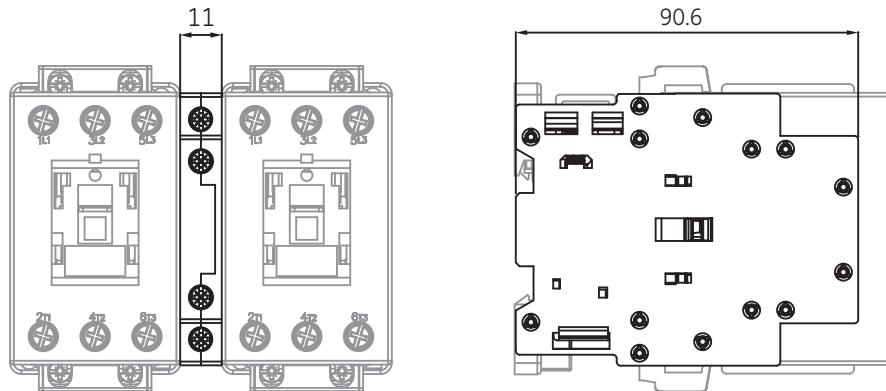
A

B

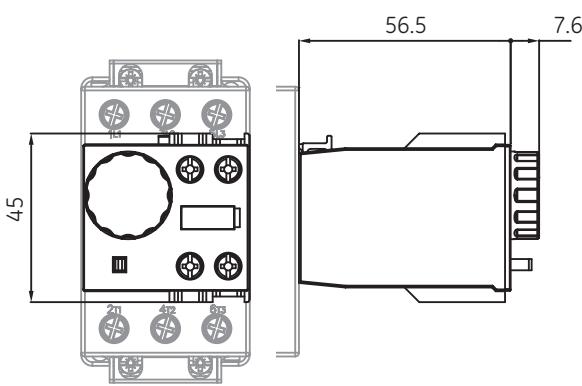
C

X

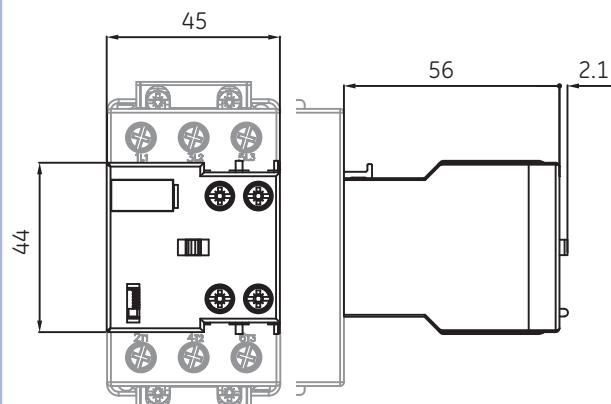
Lateral auxiliary mechanical interlock ECMI
52 g



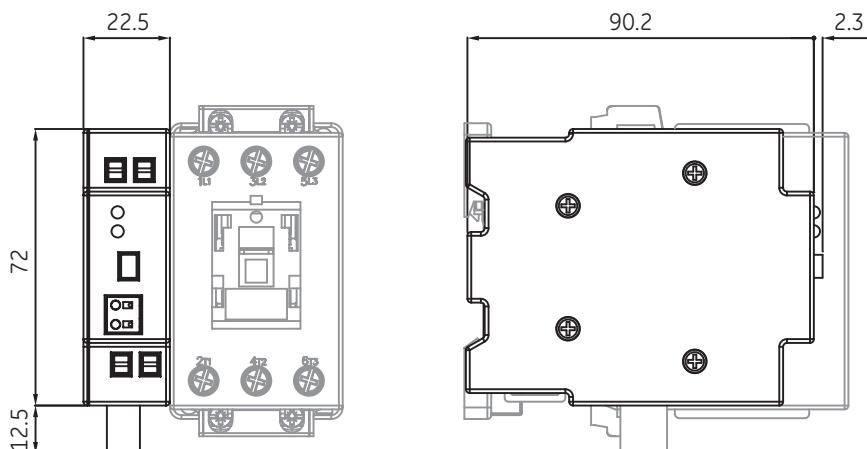
Pneumatic timer ECPT
78 g



Mechanical latch ECML
113 g

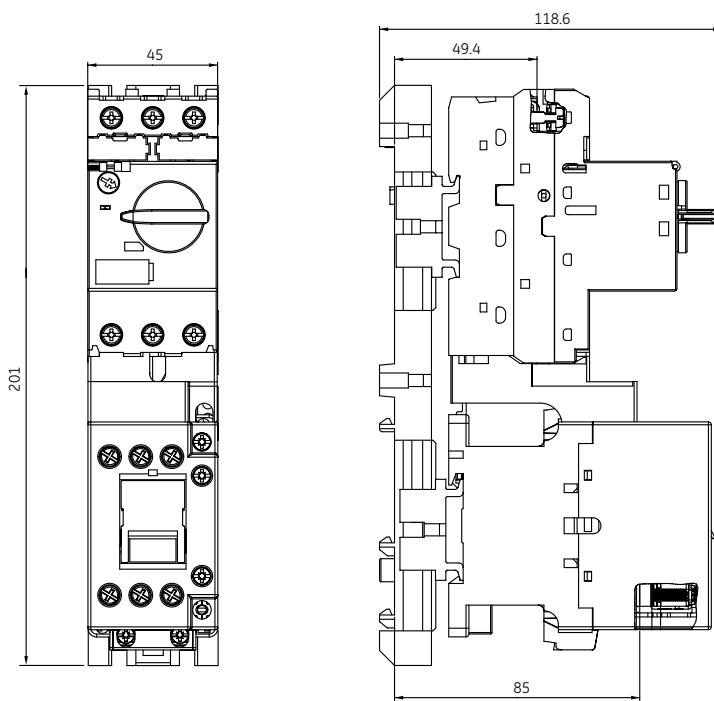


ASI communication ECASI
100 g

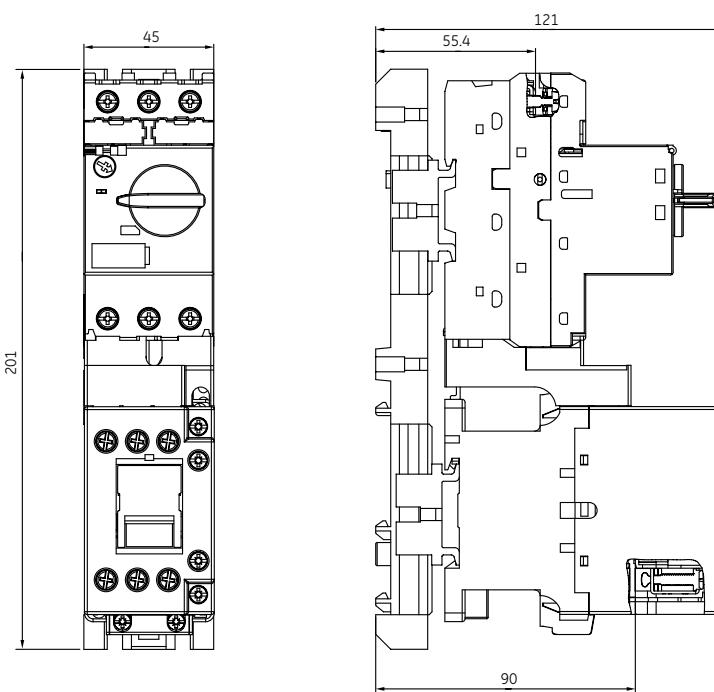


Dimensions and weights

Starter combination of manual motor starter Surion GPS1 and contactor EC09A-12A-18A
787 g



Starter combination of manual motor starter Surion GPS1 and contactor EC25A
927 g



Global contactor

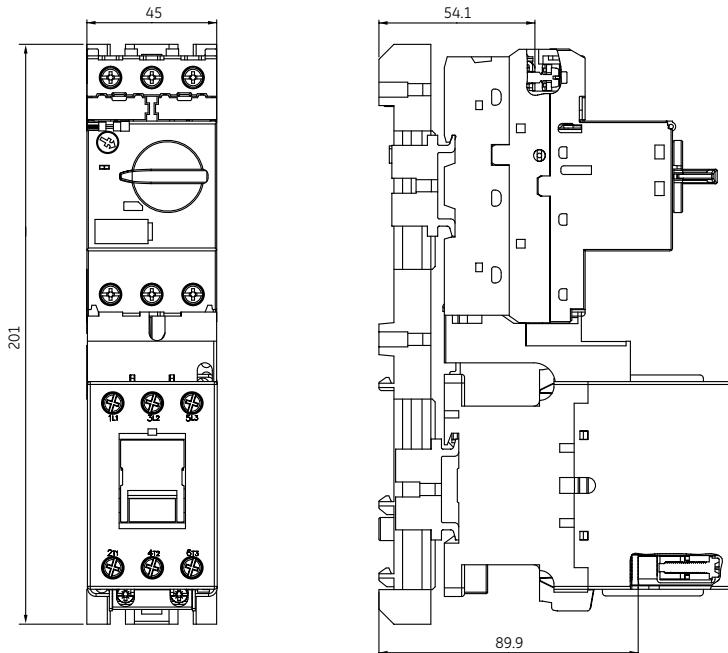
A

B

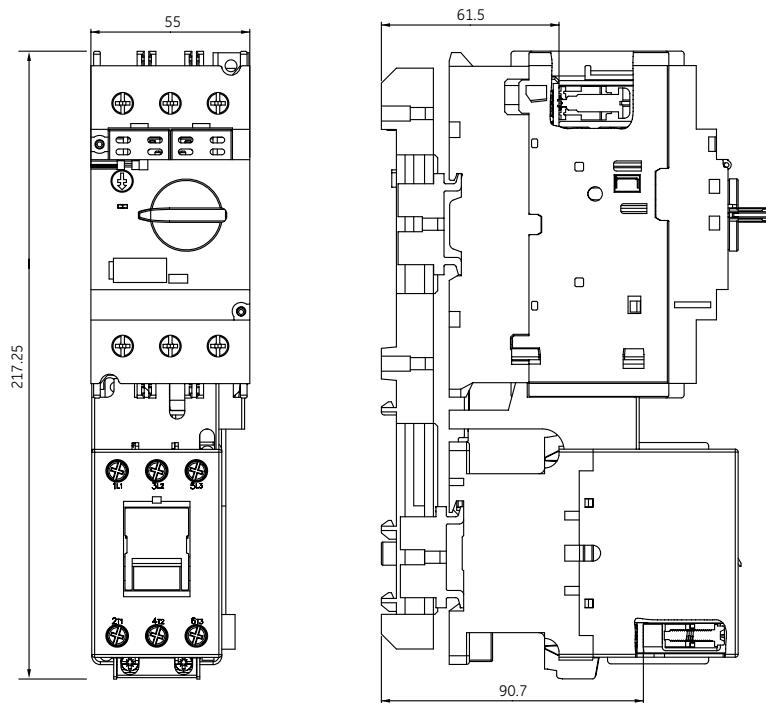
C

X

Starter combination of manual motor starter Surion GPS1 and contactor EC32A
967 g



Starter combination of manual motor starter Surion GPS2 and contactor EC40A
1368 g



Notes

Global contactor

A

B

C

X



Advantages and Benefits

Order codes

Technical data

Numerical index

Numerical index

- X.2 By reference number
X.6 By catalogue number

A

B

C

X

efficor™



X.1

By reference number

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269002	ECRT1B10J	B.15
269003	ECRT1B10K	B.15
269004	ECRT1B10L	B.15
269005	ECRT1B10M	B.15
269006	ECRT1B10N	B.15
269007	ECRT1B10P	B.15
269008	ECRT1B10S	B.15
269009	ECRT1B10T	B.15
269024	ECRT1R10B	B.15
269025	ECRT1R10C	B.15
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269029	ECRT1R10H	B.15
269030	ECRT1R10J	B.15
269031	ECRT1R10K	B.15
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269033	ECRT1R10M	B.15
269034	ECRT1R10N	B.15
269035	ECRT1R10P	B.15
269036	ECRT1R10S	B.15
269037	ECRT1R10T	B.15
269115	EC12A00B575	B.4
269116	EC18AB00B575	B.4
269117	EC25AB00B575	B.4
269118	EC32AB00B575	B.4
269248	EC09A311R575	B.5
269249	EC12A311R575	B.5
269250	EC18A311R575	B.5
269251	EC25A300R575	B.5
269252	EC32A300R575	B.5
269253	EC40A300R575	B.5
269254	EC12A400R575	B.6
269255	EC18A400R575	B.6
269256	EC25A400R575	B.6
269257	EC32A400R575	B.6
269288	EC12AB00R575	B.7
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269290	EC25AB00R575	B.7
269291	EC32AB00R575	B.7
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269326	ECML1DS060	B.13
269327	ECML1DS172	B.13
269328	ECML1DS277	B.13
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269330	ECML1DS440	B.13
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EC09A311B042	267003	B.2	EC12A311R400	267720	B.5
EC09A311B048	267004	B.2	EC12A311R440	267721	B.5
EC09A311B110	267005	B.2	EC12A311R480	267722	B.5
EC09A311B120	267006	B.2	EC12A311R500	267723	B.5
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EC09A311B230	267008	B.2	EC12A311R600	267724	B.5
EC09A311B240	267009	B.2	EC12A400B012	267175	B.3
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EC09A311B575	269075	B.2	EC12A400B120	267180	B.3
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EC09A311R120	267702	B.5	EC12A400B500	267187	B.3
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EC09A311R230	267704	B.5	EC12A400B600	267188	B.3
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EC09A311R400	267706	B.5	EC12A400R024	267872	B.6
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EC09A311R600	267710	B.5	EC12A400R208	267877	B.6
EC09D311B012W	267085	B.2	EC12A400R230	267878	B.6
EC09D311B024L	267096	B.2	EC12A400R240	267879	B.6
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EC09D311B036W	267087	B.2	EC12A400R440	267881	B.6
EC09D311B048L	267097	B.2	EC12A400R480	267882	B.6
EC09D311B048W	267088	B.2	EC12A400R500	267883	B.6
EC09D311B060W	267089	B.2	EC12A400R575	269254	B.6
EC09D311B072W	267090	B.2	EC12A400R600	267884	B.6
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EC09D311B230W	267093	B.2	EC12AB00B120	267296	B.4
EC09D311B250W	267094	B.2	EC12AB00B208	267297	B.4
EC09D311B440W	267095	B.2	EC12AB00B230	267298	B.4
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EC09D311R036W	267783	B.5	EC12AB00B480	267302	B.4
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EC12A311B400	267024	B.2	EC12D311B024W	267101	B.2
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EC12A311B500	267027	B.2	EC12D311B048W	267103	B.2
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EC12A311R048	267714	B.5	EC12D311B230L	267114	B.2
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EC12D311R036W	267798	B.5
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EC12D311R060W	267800	B.5
EC12D311R072W	267801	B.5
EC12D311R110L	267809	B.5
EC12D311R110W	267802	B.5
EC12D311R125W	267803	B.5
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EC12D311R250W	267805	B.5
EC12D311R440W	267806	B.5
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EC12D400B048L	267243	B.3
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EC12D400B060W	267235	B.3
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EC12D400B110L	267244	B.3
EC12D400B110W	267237	B.3
EC12D400B125W	267238	B.3
EC12D400B230L	267245	B.3
EC12D400B230W	267239	B.3
EC12D400B250W	267240	B.3
EC12D400B440W	267241	B.3
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EC12D400R024L	267938	B.6
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EC12D400R048L	267939	B.6
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EC12D400R125W	267934	B.6
EC12D400R230L	267941	B.6
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EC12DB00B250W	267356	B.4
EC12DB00B440W	267357	B.4
EC12DB00R012W	268043	B.7
EC12DB00R024L	268054	B.7
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EC12DB00R048L	268055	B.7
EC12DB00R048W	268046	B.7
EC12DB00R060W	268047	B.7
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EC12DB00R110L	268056	B.7
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EC12DB00R440W	268053	B.7
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EC18A311B042	267031	B.2
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EC18A311B480	267040	B.2
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EC18A311B600	267042	B.2
EC18A311R012	267725	B.5
EC18A311R024	267726	B.5
EC18A311R042	267727	B.5
EC18A311R048	267728	B.5
EC18A311R110	267729	B.5
EC18A311R120	267730	B.5
EC18A311R208	267731	B.5
EC18A311R230	267732	B.5
EC18A311R240	267733	B.5
EC18A311R400	267734	B.5
EC18A311R440	267735	B.5
EC18A311R480	267736	B.5
EC18A311R500	267737	B.5
EC18A311R575	269250	B.5
EC18A311R600	267738	B.5
EC18A400B012	267189	B.3
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EC18A400B042	267191	B.3
EC18A400B048	267192	B.3
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EC18A400B240	267197	B.3
EC18A400B400	267198	B.3
EC18A400B440	267199	B.3
EC18A400B480	267200	B.3
EC18A400B500	267201	B.3
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GE Energy Industrial Solutions Ltd
Houghton Centre
Salthouse Road
Blackmills
Northampton
NN4 7EX
United Kingdom

Customer Service UK
Tel. 0800 587 1239
Fax 0800 587 1251
e-mail: order.consind@ge.com

GE Industrial Belgium
Nieuwevaart 51
B-9000 Gent
Tel. 09 265 21 11
Fax 09 265 28 00
e-mail: ge.vynckier@gepc.ge.com



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