product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For motor protection	
product type designation	3RV2	
General technical data		
size of the circuit-breaker	S00	
size of contactor can be combined company-specific	S00, S0	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	9.25 W	
 at AC in hot operating state per pole 	3.1 W	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
surge voltage resistance rated value	6 kV	
maximum permissible voltage for safe isolation in networks with grounded star point		
 between main and auxiliary circuit 	400 V	
 between main and auxiliary circuit 	400 V	
shock resistance acc. to IEC 60068-2-27	25g / 11 ms	
mechanical service life (switching cycles)		
 of the main contacts typical 	100 000	
 of auxiliary contacts typical 	100 000	
electrical endurance (switching cycles) typical	100 000	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.10.2009 00:00:00	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
temperature compensation	-20 +60 °C	
relative humidity during operation	10 95 %	

and a standard standard standard standard	3
number of poles for main current circuit	10 16 A
adjustable current response value current of the current-dependent overload release	10 % 10 A
operating voltage	4200
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A
operational current at AC-3 at 400 V rated value	16 A
operating power at AC-3	
at 230 V rated value	4 kW
 at 400 V rated value 	7.5 kW
at 500 V rated value	7.5 KW
at 690 V rated value	11 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
■ at 24 V	2 A
at 120 V	0.5 A
at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
 at 24 V 	1.A
 at 60 V 	0.15 A
Protective and monitoring functions	
product function	
 ground fault detection 	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs) at AC	
5. 1990년 라보게 1 HT 1 H	
 at 240 V rated value 	100 kA
 at 240 V rated value at 400 V rated value 	100 kA 30 kA
at 400 V rated value	30 kA
at 400 V rated value at 500 V rated value	30 kA 5 kA
at 400 V rated value at 500 V rated value at 690 V rated value	30 kA 5 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu)	30 kA 5 kA 2 kA
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value	30 kA 5 kA 2 kA 100 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp]	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp] for single-phase AC motor	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A 16 A 16 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value st AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A 16 A 16 A
at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/OSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value for 3-phase AC motor	30 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 208 A 16 A 16 A

	C300 / R300
hort-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit curre lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
at 240 V	gL/gG 80 A
■ at 400 V	gL/gG 63 A
● at 500 V	gL/gG 50 A
■ at 690 V	gL/gG 40 A
stallation/ mounting/ dimensions	A CONTRACTOR OF THE PROPERTY O
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
upwards	30 mm
— at the side	9 mm
for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	1 P. Maria
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	V HIIII
product function removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	scrow.hino terminale
for main current circuit. for auxiliary and control circuit.	screw-type terminals screw-type terminals
arrangement of electrical connectors for main current.	Top and bottom

2x (0,75 2,5 mm²), 2x 4 mm²	
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
2x (18 14), 2x 12	
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
2x (20 16), 2x (18 14)	
0.8 1.2 N·m	
0.8 1.2 N·m	
Diameter 5 to 6 mm	
Pozidriv 2	
M3	
M3	
5 000	
50 %	
50 %	
50 FIT	
10 y	
IP20	
finger-safe, for vertical contact from the front	
Handle	







