

#### EPLAN GmbH & Co. KG

An der alten Ziegelei 2

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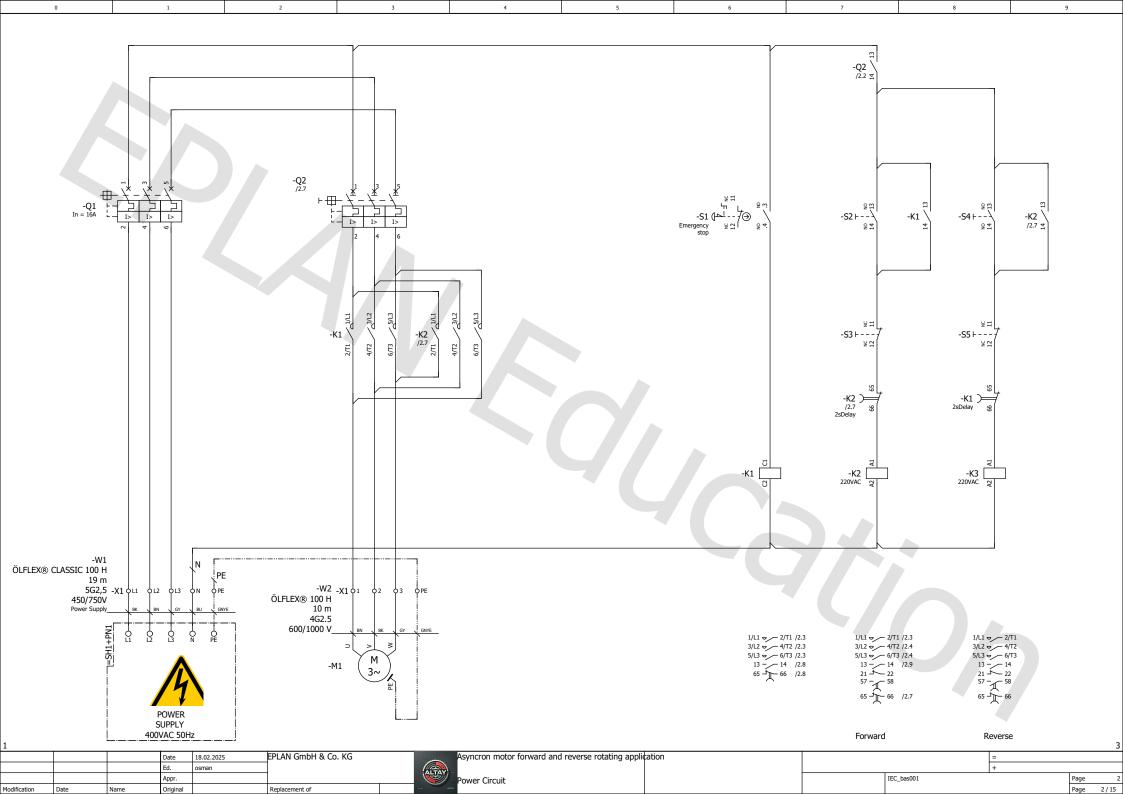
Company / custon	ner		
Project description	ı	Asyncron motor fo	orward and reverse rotating application
Job number		IEC_bas001	
Commission		EPLAN	
Manufacturer (company)		EPLAN GmbH & Co. KG	
Path		EPLAN sample project	
Project name		Uygulama_1	
Make			
Туре			
Responsible for project			
Voltage		230V	
CURRENT		18A	
Created on	14.02.2025		
Edit date	18.02.2025	by (short name)	osman Number of pages 15

			Date	18.02.2025	EPLAN GmbH & Co. KG	
			Ed.	osman		
			Appr.			
Modification	Date	Name	Original		Replacement of	

Asyncron motor forward and reverse rotating application

Title page

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F06\_003

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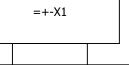
# Parts list

	1				
Device tag	Quantity	Designation	Type number	Supplier	Part number
-K2	1	TeSys Deca contactor - 3P(3 NO) - AC-3 - < lt/>= 440 V 18 A - 220 V AC coil	LC1D18M7	SE	SE.LC1D18M7
-K2	1	Auxiliary contact block TeSys - Off delay 0.1-30 s,screw-clamps terminals	LADR2	SE	SE.LADR2
-K3	1	TeSys Deca contactor - 3P(3 NO) - AC-3 - < lt/>= 440 V 18 A - 220 V AC coil	LC1D18M7	SE	SE.LC1D18M7
-K3	1	Auxiliary contact block TeSys - Off delay 0.1-30 s,screw-clamps terminals	LADR2	SE	SE.LADR2
-M1	1	5.5kW		GAMAK	GMK_GM2EL 15254
-Q1	1	MCCB_IEC_FS160_16A_3P_36KA_TM_ ATFM	3VA1196-4EE36-0AA0	SIE	SIE.3VA1196-4EE36-0AA0
-Q1	1	DOOR MOUNTED ROTARY OPERATOR, EM	3VA9157-0FK25	SIE	SIE.3VA9157-0FK25
-Q1	1	SENTRON Accessories Auxiliary release	3VA9988-0BA23		SIE.3VA9988-0BA23
-Q2	1	Thermal Magnetic Motor Circuit Breaker TeSys GV2ME - 3P - 0.10.16 A	GV2ME016	SE	SE.GV2ME016
-Q2	1	TeSys GVAE113 - auxiliary contact - 1 NO + 1 NC	GVAE113	SE	SE.GVAE113
-S1	1	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1100-1HB20-1CG0	SIE	SIE.3SU1100-1HB20-1CG0
-S1	1	CONTACT MODULE 1NO	3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
-S2	1	PUSHBUTTON, GREEN	3SU1130-0AB40-1BA0	SIE	SIE.3SU1130-0AB40-1BA0
-S3	1	PUSHBUTTON, RED	3SU1130-0AB20-1CA0	SIE	SIE.3SU1130-0AB20-1CA0
-S4	1	PUSHBUTTON, GREEN	3SU1130-0AB40-1BA0	SIE	SIE.3SU1130-0AB40-1BA0
-S5	1	PUSHBUTTON, RED	3SU1130-0AB20-1CA0	SIE	SIE.3SU1130-0AB20-1CA0
-W1	1	ÖLFLEX® CLASSIC 100 H 5G2,5	ÖLFLEX® CLASSIC 100 H	LAPP	LAPP.0014159
-W2	1	ÖLFLEX CLASSIC 100 H 4G2,5	ÖLFLEX® CLASSIC 100 H	LAPP	LAPP.0014158
-X1	6	Feed-through terminal block	PT 2,5		PXC.3209510
-X1	2	Ground terminal block	PT 2,5-PE		PXC.3209536
-X1	2	End and partition plate for terminal block	D-ST 2,5		PXC.3030417
-X1	2	End clamp	CLIPFIX 35	PXC	PXC.3022218
-X1	3	End and partition plate for terminal block	ATP-ST 4	-	PXC.3030721
-X1	1	Feed-through terminal block	PT 2,5 BU		PXC.3209523
			·		

 1 2 3 4 5 6 7 8 9

# Terminal line-up diagram

		Par	t number								
Mounting rail			Strip label	End angle rear	End plate						
Terminal											
Part number	Type number	Cross-section	Terminal label	Jumper	Cover						
PXC.3209510	PT 2,5	4									
PXC.3209510	PT 2,5	4									
PXC.3209536	PT 2,5-PE	4									
PXC.3030417	D-ST 2,5										
PXC.3022218	CLIPFIX 35										
PXC.3209510	PT 2,5	4									
PXC.3209510	PT 2,5	4									
PXC.3209510	PT 2,5	4									
PXC.3030721	ATP-ST 4										
PXC.3209510	PT 2,5	4									
PXC.3030721	ATP-ST 4										
PXC.3209523	PT 2,5 BU	4									
PXC.3030721	ATP-ST 4										
PXC.3209536	PT 2,5-PE	4									
PXC.3030417	D-ST 2,5										
PXC.3022218	CLIPFIX 35										



F12\_001

1	
L1	
PE	
2	
L2	
3	
L3	
N	
PE	

4

Date 18.02.2025 EPLAN
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Terminal line-up diagram =+-X1

Terminal diagram

F13\_001

	-W1	-W2	Cable name	Strip =+-X1						Cable name	
Function text	ÖLFLEX® CLASSIC 100 H	ÖLFLEX® 100 H	Cable type	Target designation	Connection point	Terminal	Jumper	Connection point  Target designation		Cable type	Page / column
		BN		-M1	U	1		-K1 2/T1			/2.3
								-K2 6/T3	_		
	BK			Ц		L1	•	-Q1 2	4		/2.1
		GNYE BK	-	-M1 -M1	PE V	PE 2	•	-K1 4/T2	4		/2.3
		BK		-M1	v	2	•	-K1 4/12 -K2 4/T2			/2.3
	BN			L2		L2		-Q1 4	+		/2.1
	7	GY		-M1	w	3		-K1 6/T3			/2.3
								-K2 2/T1			
	GY			L3		L3		-Q1 6			/2.1
	BU			N PE		N		-K1 C2	4		/2.1
	GNYE		-	PE		PE	•		-		/2.1
			1						+		
			1						1		
						7					
									4		
									+		
			1						$\dashv$		
			ł	1					1		
			1								
									4		
			-						$\perp$		
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Terminal diagram =+-X1

1 2 3 4 5 6 7 8 9

F14\_001

# Terminal-strip overview

Modification

first last Total PE Total N Total number					Terminals			
	Terminal strip	Terminal strip definition text	first	last	Total PE	Total N	Total number	Graphical page of terminal diagrams
	-X1		1	PE	2	0	9	/5
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							7	
						l	1	

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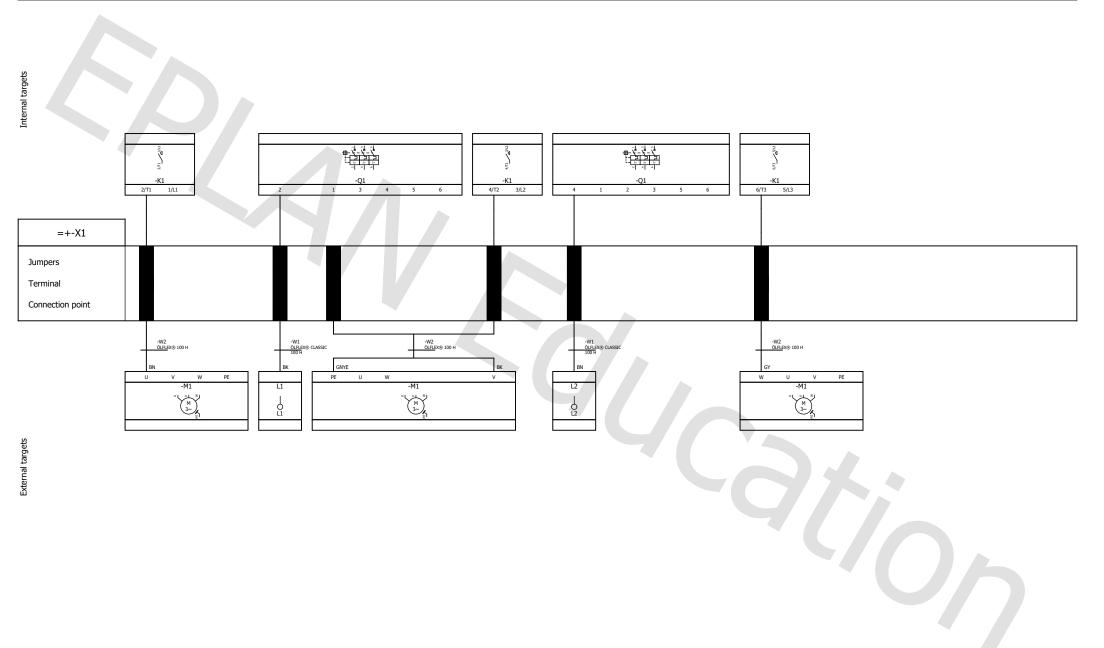
0 1 2 3 4 5 6 7 8 9

## Terminal-connection diagram

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F11\_002 osman 18.02.2025



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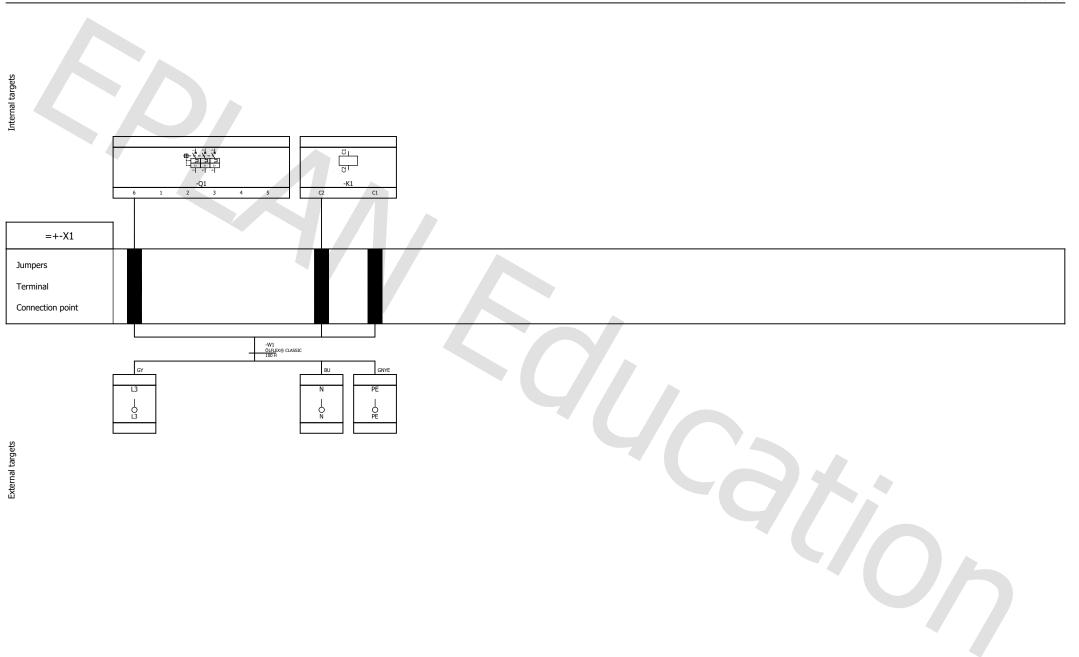
Asyncron motor forward and reverse rotating application

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Terminal-connection diagram =+-X1

Terminal-connection diagram F11\_002 osman 18.02.2025



18.02.2025 EPLAN GmbH & Co. KG Terminal-connection diagram =+-X1 osman

Asyncron motor forward and reverse rotating application IEC\_bas001

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## Structure identifier overview

F24\_001

Full designation	Labeling	Structure description	Full designation	Labeling	Structure description
=CA1	Function designation				
SH1	Function designation				
EAA	Location designation				
PN1	Location designation				

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Structure identifier overview

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Name of potential	Potential value	Frequency	Potential type	Placement
	230V	50Hz	L	/2.1
	230V	50Hz	L	/2.1
	230V	50Hz	L	/2.1
	0		N	/2.1
	Ground		PE	/2.1

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Potential overview : L1 - PE

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Modification

### F09\_001

Cable name =+-W1	ÖLFLEX	Cable type  R CLASSIC 100 H	No. of co		Cross-section 2,5	Ca	able length 19	Function text Power Supply
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
	/2.1	-X1	N:2	BU	N		/2.1	
	/2.1	-X1	L2:2	BN	L2		/2.1	
	/2.1	-X1	L1:2	ВК	L1		/2.1	
	/2.1	-X1	L3:2	GY	L3		/2.1	
	/2.1	-X1	PE:2	GNYE	PE		/2.1	
		4						
					7//////////////////////////////////////			
								7

Asyncron motor forward and reverse rotating application

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Cable diagram

F09\_001

Cable name =+-W2	ÖLFL	Cable type EX® 100 H	No. of co		Cross-section 2.5	Ca	able length	Function text
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
	/2.3	-X1	1:2	BN	-M1	U	/2.3	
	/2.3	-X1	2:2	BK	-M1	V	/2.3	
	/2.3	-X1	3:2	GY	-M1	W	/2.3	
	/2.3	-X1	PE:2	GNYE	-M1	PE	/2.3	

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Asyncron motor forward and reverse rotating application

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Cable diagram =+-W2

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Cable overview F10\_001

Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]		Function text	Graphical page of cable diagram
-W1	-X1	L1	ÖLFLEX® CLASSIC 100 H	5G	5	2,5	19	Power Supply	/11
		L2							
		L3							
		N							
		PE							
-W2	-X1	-M1	ÖLFLEX® 100 H	4G	4	2.5	10		/12
								1	
								1	
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Connection list F27\_001

Connection	Source	Target	Cross-section	Color	Length	Page / column 1	Page / column 2	Function definition
	LL .	-X1:L1:2	2,5	BK	19 m	/2.1	/2.1	Conductor / wire
	-Q1:2	-X1:L1:1				/2.1	/2.1	Conductor / wire
	-Q1:1	-Q2:1				/2.1	/2.3	Conductor / wire
	-Q2:1	-S1:.3				/2.3	/2.6	Conductor / wire
	-Q2:13	-S1:.3				/2.7	/2.6	Conductor / wire
	L2	-X1:L2:2	2,5	BN	19 m	/2.1	/2.1	Conductor / wire
	-Q1:4	-X1:L2:1	2,5	511	25	/2.1	/2.1	Conductor / wire
	-Q1:3	-A1.L2.1				/2.1	/2.3	Conductor / wire
	L3		3.5	CV	19 m			
		-X1:L3:2	2,5	GY	19 M	/2.1	/2.1	Conductor / wire
	-Q1:6	-X1:L3:1				/2.1	/2.1	Conductor / wire
	-Q1:5	-Q2:5				/2.1	/2.3	Conductor / wire
N	N	-X1:N:2	2,5	BU	19 m	/2.1	/2.1	Conductor / wire
N	-K1:C2	-X1:N:1				/2.6	/2.1	Conductor / wire
N	-K1:C2	-K2:A2				/2.6	/2.7	Conductor / wire
N	-K2:A2	-K3:A2				/2.7	/2.8	Conductor / wire
PE	PE	-X1:PE:2	2,5	GNYE	19 m	/2.1	/2.1	Conductor / wire
	-M1:U	-X1:1:2	2.5	BN	10 m	/2.3	/2.3	Conductor / wire
	-K1:2/T1	-X1:1:1				/2.3	/2.3	Conductor / wire
	-K2:6/T3	-X1:1:1				/2.4	/2.3	Conductor / wire
	-K1:1/L1	-X1.1.1 -Q2:2				/2.3	/2.3	Conductor / wire
	-K1:1/L1	-K2:1/L1				/2.3	/2.3	Conductor / wire
	-M1:V	-X1:2:2	2.5	BK	10 m	/2.3	/2.3	Conductor / wire
	-K1:4/T2	-X1:2:1				/2.3	/2.3	Conductor / wire
	-K2:4/T2	-X1:2:1				/2.4	/2.3	Conductor / wire
	-K1:3/L2	-Q2:4				/2.3	/2.3	Conductor / wire
	-K1:3/L2	-K2:3/L2				/2.3	/2.4	Conductor / wire
PE	-M1:PE	-X1:PE:2	2.5	GNYE	10 m	/2.3	/2.3	Conductor / wire
	-M1:W	-X1:3:2	2.5	GY	10 m	/2.3	/2.3	Conductor / wire
	-K1:6/T3	-X1:3:1				/2.3	/2.3	Conductor / wire
	-K2:2/T1	-X1:3:1	_			/2.3	/2.3	Conductor / wire
	-K1:5/L3	-Q2:6				/2.3	/2.3	Conductor / wire
	-K1:5/L3					/2.3	/2.4	
		-K2:5/L3						Conductor / wire
PE	-X1:PE:1	-X1:PE:1				/2.3	/2.1	Direct connection
	-K1:C1	-S1:.4				/2.6	/2.6	Conductor / wire
	-K2:66	-K2:A1				/2.7	/2.7	Conductor / wire
	-K2:65	-S3:12				/2.7	/2.7	Conductor / wire
	-S2:14	-S3:11				/2.7	/2.7	Conductor / wire
	-K1:14	-S3:11				/2.8	/2.7	Conductor / wire
	-S2:13	-S4:13				/2.7	/2.8	Conductor / wire
	-K2:13	-S4:13				/2.9	/2.8	Conductor / wire
	-Q2:14	-52:13				/2.7	/2.7	Conductor / wire
	-K1:13	-S2:13				/2.8	/2.7	Conductor / wire
	-K1:15	-52:13 -K3:A1				/2.8	/2.8	Conductor / wire
	-K1:65	-S5:12				/2.8	/2.8	Conductor / wire
	-S4:14	-S5:11				/2.8	/2.8	Conductor / wire
	-K2:14	-S5:11				/2.9	/2.8	Conductor / wire
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