

DOL starter, 3p, 0.18kW/400V/AC3, 100kA, +busbar adapter

Powering Business Worldwide*

Part no. MSC-D-0,63-M7(24VDC)/BBA
Article no. 102966
Catalog No. XTSCP63B007BTDNL-A

Delivery program

Delivery program			
Basic function			DOL starters (complete devices)
Basic device			MSC
			IE3 ✓
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Motor ratings			
Motor rating			
AC-3			
380 V 400 V 415 V	Р	kW	0.12 0.18
Rated operational current	l _e	Α	0.41 0.6
Rated short-circuit current 380 - 415 V	Iq	kA	100
Setting range			
Setting range of overload releases	l _e	А	0.4 - 0.63
Non-delayed Coordination	I _{rm}	A	9.8 Type of coordination "1" Type of coordination "2"
Contact sequence			M 3~
Actuating voltage			24 V DC
			DC voltage
Motor-protective circuit-breakers PKZM0-0.63			

Motor-protective circuit-breakers PKZM0-0,63

Contactor DILM7-10(...)

DOL starter wiring set

Mechanical connection element and electrical electric contact module PKZM0-XDM12

Notes

The direct-on-line starter (complete unit) consists of a PKZM0 motor-protective circuit-breaker and a DILM contactor. These conbinations are mounted on the busbars.

The connection of the main circuit between PKZ and contactor is established with electrical contact modules.

Further inf	ormation		
Technical	data PKZM0		
Accessori	es PKZ		
Technical	data DILM		
DILM acce	ssories		

Notes

BK25/3-PKZ0-E extension terminal and if necessary B3.../...-PKZ0 three-phase commoning link can be added to motor-starter combinations to make Type F starters in accordance with UL508.

Page → PKZM0 → 072896 → DILM → 281199

Technical data

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Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Main conducting paths			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U _e	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	Α	0.63
Additional technical data			
Motor protective circuit breaker PKZM0, PKE			PKZM0 motor-protective circuit-breakers, see motor-protective circuit-breakers/ PKZM0 product group DILM contactors, see contactors product group DILET timing relay, ETR, see contactors, electronic timing relays product group
Power consumption			
DC operated	Sealing	W	3

Design verification as per IEC/EN 61439

echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0.63
Heat dissipation per pole, current-dependent	P_{vid}	W	1.9
Equipment heat dissipation, current-dependent	P _{vid}	W	5.7
Static heat dissipation, non-current-dependent	P _{vs}	W	2.6
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
C/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.

10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

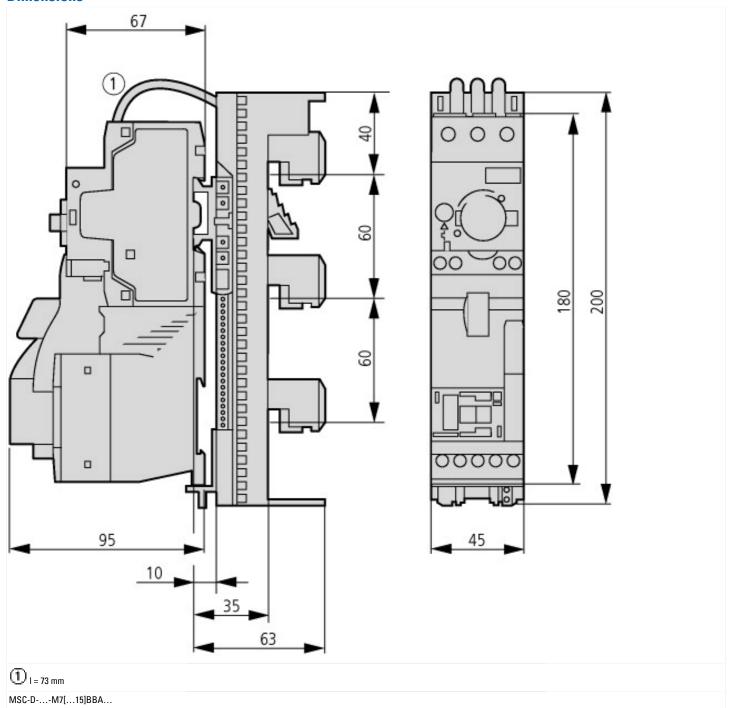
Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

Kind or motira straterie Image: Control strateries Yes 10 Nich attorn circuit rediesa y 0 10 Rabed control supply voltage bit and AC 50HZ y 0 0 Rabed control supply voltage bit and AC 50HZ y 0 0 Rabed control supply voltage bit and AC 50HZ y 0 0 Rabed portagin power at AC 2, 400 Y kW 0.0 0 Rabed powers AG N, 80 HX, 3-plasse y 0 0 Rabed powers AG X, 80 HX, 3-plasse y 0 0 Rabed powers AG X, 80 HX, 3-plasse y 0 0 Rabed powers AG X, 80 HX, 3-plasse y 0 0 Rabed powers AG X, 80 HX, 3-plasse y 0 0 Rabed powers AG X, 80 HX, 3-plasse y 0 0 Rabed powers and redient and redical control of the recitation control type 1, 400 YX77 Y y 0 0 Rabed confidence and recitation control, type 1, 400 YX77 Y y 0 0 0 Rabed condicional darb crication control, type 1, 400 YX77 Y y	Electric engineering, automation, process control engineering / Low-voltage switch [AJZ718010])	technology / Load b	oreakout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05
Rated centrol supply voltage by at AC 50MZ V 0 - 0 Rated centrol supply voltage by at AC 60MZ V 4 - 24 Voltage typs for actuating D D Rated operation power at AC 32 MZ spases MW 0.08 Rated operation power at AC 3, 40V V WW 0.08 Rated operation power at AC 3, 40V W WW 0 Rated operation current by AV 0.68 Rated operation current by AV 0.63 Rated operation current by AV 0.63 Rated operation current by AV 0.03 Rated operation current by AV 0.03 Rated conditional stort-circuit current, type 1, 460 Y/27 Y AV 0.03 Rated conditional stort-circuit current, type 2, 200 Y/34 Y AV 0.00 Rated conditional stort-circuit current, type 2, 400 Y/34 Y AV 0.00 Rated conditional stort-circuit current, type 2, 400 Y/34 Y AV 0.00 Rated conditional stort-circuit current, type 2, 400 Y/34 Y AV 0.00 Rated conditional stort-circuit current, type 2, 400 Y/34 Y AV 0.00	Kind of motor starter		Direct starter
Part Control supply veltage bit at AC 60172 Veral 24-24 Veral 24	With short-circuit release		Yes
Read control supply voltage Us at DC V 24 - 24 Vallage type for actuaring DC Read operation power at AC-3, 20V, 2-phase BW 0.98 Read operation power at AC-3, 40V W 0.18 Read operation power at AC-3, 40V A 0.83 Read operation current at AC-3, 40V A 0.83 Read comprision current at AC-3, 40V A 0.83 Voverload release current at AC-3, 40V A 0.83 Placed conditional short-circuit current, type 1, 480 Y/27V A 0 Read conditional short-circuit current, type 1, 580 Y/34V A 0 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A 5800 Read conditional short-circuit current, type 2, 220 V A	Rated control supply voltage Us at AC 50HZ	V	0 - 0
Voltage type for actualing IC Rated operation power at AC-3, 200 V.3 phase kW 0.98 Rated operation power at AC-3, 400 V kW 0.18 Rated power, 400 V, 50 HJ, 3-phase kW 0 Rated operation current le AD 0.68 Rated operation current le AD 0.83 Rated operation current le AD 0.33 Rated operation current setting AD 0.4 - 0.83 Rated operation current setting AD 0.4 - 0.83 Rated conditional short-circuit current, yea 1,400 Y/271 V AD 0 Rated conditional short-circuit current, yea 2,200 V AD 5000 Rated conditional short-circuit current, yea 2,400 V AD 5000 Rated conditional short-circuit current, yea 2,400 V AD 5000 Rated conditional short-circuit current, yea 2,400 V AD 5000 Rated conditional short-circuit current, yea 2,400 V AD 5000 Number of auxiliary contacts as normally open certaing limit *C 80 Tamperature compensated overbag operating limit *C 80	Rated control supply voltage Us at AC 60HZ	V	0 - 0
Retail operation power at AC-3, 200 V.3 phase	Rated control supply voltage Us at DC	V	24 - 24
Rated operation power at AC3, 400 V (AU) 0.18 Rated operation current le (AU) 0 Rated operation current le (AU) 0.6 Rated operation current et AC3, 400 V (AU) 0.3 Overfood release current setting (AU) 0.4 0.8 Rated conditional shart-circuit current, type 1, 800 Y/37 V (AU) 0 0 Rated conditional shart-circuit current, type 2, 230 V (AU) 0 0 Rated conditional shart-circuit current, type 2, 2400 V (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU) 0 0 Number of auxiliary contacts as normally open contact (AU)	Voltage type for actuating		DC
Rated power, 160 V, 60 Hz, 3-phase kW 0 Rated operation current le AD 6.8 Rated operation current le AD 6.8 Rated operation current st AC-3,400 V AD 0.8 Overload release current setting AD 4.0 0.8 Rated conditional short-circuit current, type 1, 480 Y277 V AD 0 0 Rated conditional short-circuit current, type 2, 280 V AD 50000 0 Rated conditional short-circuit current, type 2, 280 V AD 50000 0 Rated conditional short-circuit current, type 2, 400 V AD 50000 0 0 Rated conditional short-circuit current, type 2, 400 V AD 50000 0	Rated operation power at AC-3, 230 V, 3-phase	kW	0.09
Rated power, STS V, 80 Hz, 3-phase KW 0 Rated operation current Is A 0.5 Rated operation current st AC-3.00V A 0.83 Overlead release current setting A 0.4 + 0.83 Rated conditional short-circuit current, type 1, 480 V/STV V A 0 Rated conditional short-circuit current, type 1, 200 V/STV V A 5000 Rated conditional short-circuit current, type 2, 400 V A 5000 Rated conditional short-circuit current, type 2, 400 V A 5000 Number of auxiliary contacts as normally open contact C 6 Number of auxiliary contacts as normally open contact C 6 Release Cass C 4 8 Temperature compensated overload protection C 9 4 Release Cass C 6 C Type of electrical connection for muxiliary- and control current circuit C 7 2 Supporting protection (IP) N 2 1 2 Supporting protection (IP) N N N Supporting pro	Rated operation power at AC-3, 400 V	kW	0.18
Rated operation current te A 0.6 Rated operation current at ACS, 400 V A 0.8 Overload rollease current setting A 0.4 0.8 Rated conditional short-circuit current, type 1,480 Y/277 V A 0 Rated conditional short-circuit current, type 1,600 Y/347 V A 0 Rated conditional short-circuit current, type 2,200 V A 0 Number of auxiliary contacts as normally open contact C 1 Number of auxiliary contacts as normally closed contact C 0 Anhiest temperature, upper operating limit C 0 Tomperature compensated overload protection C 0 Type of electrical connection of main circuit Y Yes Type of electrical connection for auxiliary- and control current circuit Yes 0 Supporting protecci for TCP/IP Yes 1 Na Supporting protecci for PROFIBEUS Na Na Supporting protecci for TRBBUS Na Na Supporting protecci for MOBUS Na Na Supporting protecci for MOBUS Na Na <td>Rated power, 460 V, 60 Hz, 3-phase</td> <td>kW</td> <td>0</td>	Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated operation current at AC 3, 400 V A 0.83 Overload colease current setting A 0.4 - 6.83 Rated conditional short-circuit current, type 1, 800 V/371 V A 0 Rated conditional short-circuit current, type 2, 800 V A 0 Rated conditional short-circuit current, type 2, 800 V A 0 Rated conditional short-circuit current, type 2, 800 V A 0 Number of auxiliary contacts as normally open contact A 0 Ambient temperature, upper operating limit C 0 Temperature compensated overload protection CLASS 10 Temperature compensated overload protection CLASS 10 Type of electrical connection of main circuit Screw connection Type of electrical connection for suciliary- and control current circuit Yes Supporting protection for PCP/P Na Supporting protection for FDRBUS Na Supporting protection for Develoc	Rated power, 575 V, 60 Hz, 3-phase	kW	0
Overload release current setting A 0 - 0.0 Rated conditional short-circuit current, type 1,880 Y/37 Y A 0 Rated conditional short-circuit current, type 2,230 Y A 0 Rated conditional short-circuit current, type 2,230 Y A 50000 Rated conditional short-circuit current, type 2,230 Y B 0 Number of auxiliary contacts as normally open contact *C 0 Number of auxiliary contacts as normally closed contact *C 0 Rated conditional short-circuit current, type 2,400 Y *C 0 Number of auxiliary contacts as normally closed contact *C 0 Auxiliary contacts as normally closed contact *C 0 Temperature compensated overload protection *C 0 Temperature compensated overload protection *C 0 Rolesca Class *C CASS 10 Type of electrical connection of main circuit *C CASS 10 Supporting protected for CAN *C Yes Supporting protected for TCAPIP *C No Supporting protected for ACAN *C No	Rated operation current le	A	0.6
Rated conditional short-circuit current, type 1, 480 Y/277 Y A 0 Rated conditional short-circuit current, type 2, 280 Y A 3000 Rated conditional short-circuit current, type 2, 280 Y A 9000 Number of auxiliary contacts as normally open contact	Rated operation current at AC-3, 400 V	A	0.63
Rated conditional short-circuit current, type 2, 230 V A 5000 Rated conditional short-circuit current, type 2, 230 V A 5000 Rated conditional short-circuit current, type 2, 230 V A 5000 Number of auxiliary contacts as normally closed contact B 1 Number of auxiliary contacts as normally closed contact C 6 Ambient temperature, upper operating limit C 6 Temperature compensated overload protection C 6 Release class C CLASS 10 Type of electrical connection of main circuit Screw connection Type of electrical connection for auxiliary- and control current circuit F 9 Rail mounting possible F 1920 Degree of protection (IP) No No Supporting protecol for PROFIBUS No No Supporting protecol for PROFIBUS No No Supporting protecol for MODBUS No No Supporting protecol for PASI No No Supporting protecol for Electrical Connections No No Supporting protecol	Overload release current setting	A	0.4 - 0.63
Rated conditional short-circuit current, type 2, 200 V A 50000 Number of auxiliary contacts as normally copen contact C 1 Number of auxiliary contacts as anormally copen contact C 6 Number of auxiliary contacts as normally closed contact C 6 Ambient temperature, upper operating limit C 6 Temperature comparated overload protection C 2 4 Release class CLASS 10 CLASS 10 Type of electrical connection of rain circuit C Crew connection Supporting possible P2 Degree of protection (IP) P2 Supporting protection (IP) P2 No Supporting protector for EARIBUS No No Supporting protector for RAN No No Supporting protector for MOBBUS No No Supporting protector for MOBBUS No No Supporting protector for MOBBUS No No Supporting protector for SuContex No No Supporting protector for SuContex No No Supporting p	Rated conditional short-circuit current, type 1, 480 Y/277 V	А	0
Rated conditional short-circuit current. type 2,400 V A 50000 Number of auxiliary contacts as normally closed contact C	Rated conditional short-circuit current, type 1, 600 Y/347 V	А	0
Number of auxiliary contacts as normally closed contact 6 1 Number of auxiliary contacts as normally closed contact *C 80 Ambient tamperature, upper operating limit *C 80 Temperature compensated overload protection *C 80 Release class *CLASS 10 *CLASS 10 Type of electrical connection of main circuit *C Screw connection Type of electrical connection for auxiliary- and control current circuit *C P20 Rall mounting possible *C P20 Degree of protection (IP) *P20 P20 Supporting protocol for TCP/IP *No *No Supporting protocol for AN *No *No Supporting protocol for MDEUS *No *No Supporting protocol for MDEUS *No *No Supporting protocol for Det-Highway *No *No Supporting protocol for Det-Highway *No *No Supporting protocol for DeviceNET *No *No Supporting protocol for DeviceNET IO *No *No Supporting protocol for PROFINET CBA	Rated conditional short-circuit current, type 2, 230 V	А	50000
Number of auxiliary contacts as normally closed contact Ambient temperature, upper operating limit CC 80 Temperature compensated overload protection Release class CLASS 10 CLASS 10 Type of electrical connection of main circuit Type of electrical connection for auxiliary- and control current circuit Rail mounting possible Degree of protection (IP) Supporting protecol for TCP/IP Supporting protecol for CAN Supporting protecol for CAN Supporting protecol for ASI Supporting protecol for ASI Supporting protecol for Data-Highway Supporting protecol for Data-Highway Supporting protecol for Data-Highway Supporting protecol for PROFINET IO Supporting protecol for PROFINET IO Supporting protecol for FROFINET IO Supporting proteco	Rated conditional short-circuit current, type 2, 400 V	A	50000
Ambient temperature, upper operating limit °C 86 Temperature compensated overload protection Yes Release class CLASS 10 Type of electrical connection of main circuit Screw connection Type of electrical connection for auxiliary- and control current circuit Yes Bail mounting possible Yes Degree of protection (IP) IP20 Supporting protocol for TCP/IP No Supporting protocol for CAN No Supporting protocol for ASI No Supporting protocol for MSI No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET EDA No Supporting protocol for PROFINET CBA No Supporting protocol for FROFINET CBA <t< td=""><td>Number of auxiliary contacts as normally open contact</td><td></td><td>1</td></t<>	Number of auxiliary contacts as normally open contact		1
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Release class Type of electrical connection of main circuit Type of electrical connection for auxiliany- and control current circuit Rail mounting possible Degree of protection (IP) Supporting protectlo for TCP/IP Supporting protectlo for PROFIBUS Supporting protectlo for FROFIBUS Supporting protectlo for INTERBUS Supporting protectlo for INTERBUS Supporting protectlo for ASI Supporting protectlo for ASI Supporting protectlo for Data-Highway Supporting protectlo for Data-Highway Supporting protectlo for Data-Highway Supporting protectlo for SUCONET Supporting protectlo for FROFINET IOS Supporting protectlo for FORDINET IOS Supporting protectlo for FORDINET IOS Supporting protectlo for SUCONET Supporting protectlo for FORDINET IOS Supporting pro	Ambient temperature, , upper operating limit	°C	60
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Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus No Supporting protocol for EtherNet/IP No Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No	Supporting protocol for LON		No
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Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No	Supporting protocol for Foundation Fieldbus		No
Supporting protocol for DeviceNet Safety No	Supporting protocol for EtherNet/IP		No
	Supporting protocol for AS-Interface Safety at Work		No
	Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety No	Supporting protocol for INTERBUS-Safety		No

Supporting protocol for PROFIsafe	No
Supporting protocol for SafetyBUS p	No
Supporting protocol for other bus systems	No

Dimensions



Additional product information (links)

IL03402015Z (AWA1210-2324) Busbar adapter		
IL03402015Z (AWA1210-2324) Busbar adapter	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402015Z2010_10.pdf	
Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.pdf	
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf	