


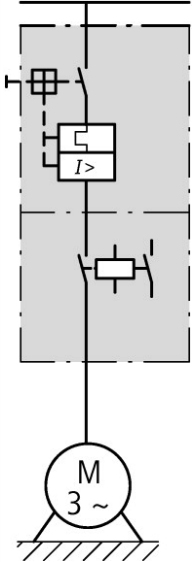


**DOL starter on feeder system adapter, 3-pole, 5.5 kW/400 V/AC-3, 100 kA**

**Part no. MSC-DM-12-M12(230V50HZ)/MSFA**  
**Catalog No. 191124**  
**Eaton Catalog No. XTSC012B012BMFNL-FS**



## Delivery program

Basic function				DOL starters (complete devices)
Basic device				MSC
				
Notes				Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
<b>Motor ratings</b>				
Motor rating				
AC-3				
380 V 400 V 415 V	P	kW		5.5
Rated operational current	$I_e$	A		11.3
Rated short-circuit current 380 - 415 V	$I_q$	kA		100
<b>Setting range</b>				
Setting range of overload releases	$I_r$	A		8 - 12
				
Non-delayed	$I_{rm}$	A		186
				
Coordination				Type of coordination "1"
Contact sequence				
Actuating voltage				230 V 50 Hz AC voltage
<b>Motor-protective circuit-breakers PKZM0-12</b>				
Contactor DILM12-10(...)				
<b>DOL starter wiring set</b> Mechanical connection element and electrical electric contact module PKZM0-XDM15ME				

## Technical data

### General

Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
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### Main conducting paths

Rated impulse withstand voltage	$U_{imp}$	V AC	6000
Overtoltage 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	$I_e$	A	12

### 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 contactor product group DILET timing relay, ETR, see contactors, electronic timing relays product group
DILM contactors			
Power consumption of the coil in a cold state and $1.0 \times U_c$			
Dual-voltage coil 50 Hz	Sealing	W	1.4

## Design verification as per IEC/EN 61439

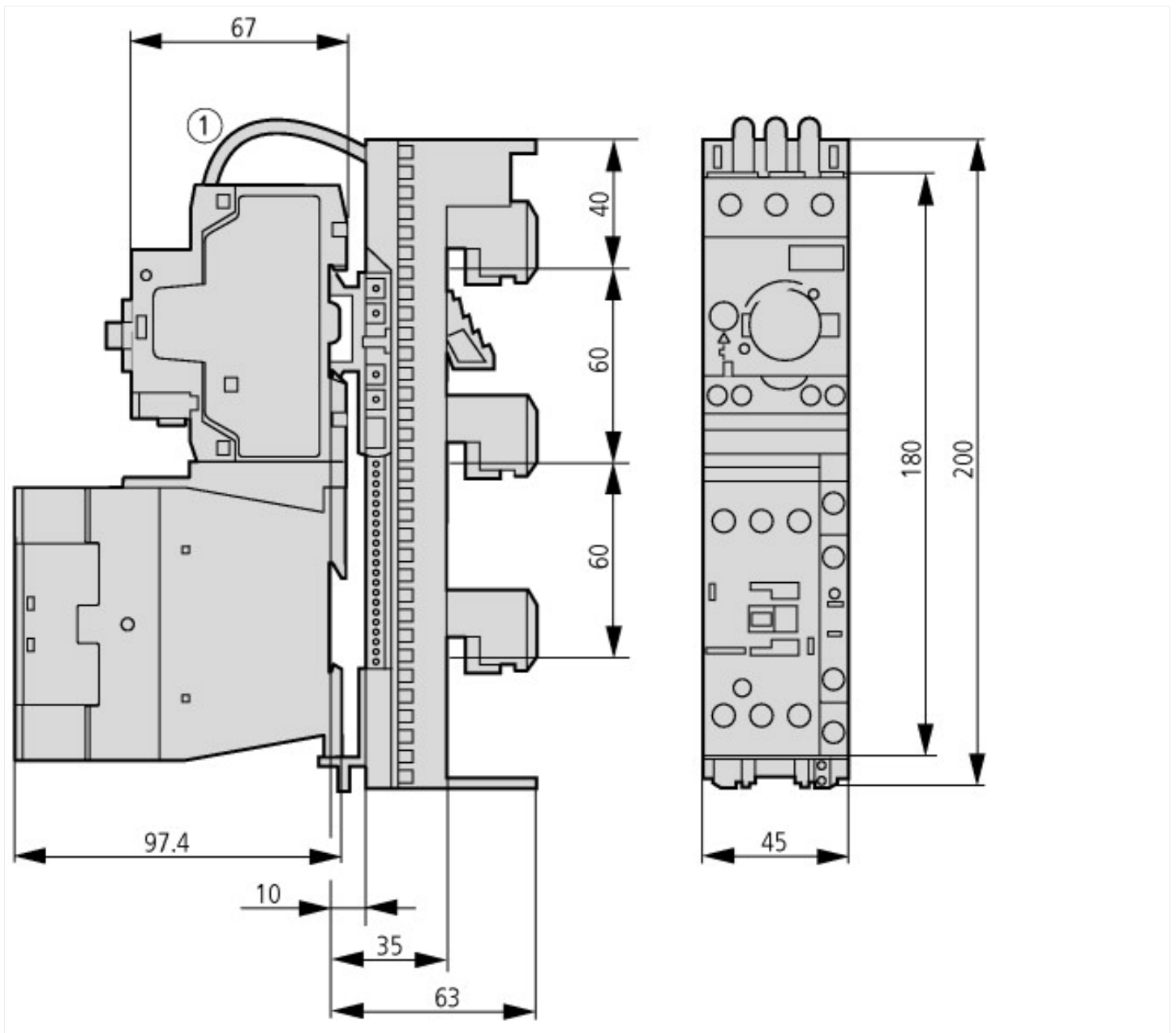
Technical data for design verification			
Operating ambient temperature max.		°C	-25
Operating ambient temperature max.		°C	55

## Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss8.1-27-37-09-05 [AJZ718010])			
Kind of motor starter			Direct starter
With short-circuit release			Yes
Rated control supply voltage $U_s$ at AC 50HZ		V	230 - 230
Rated control supply voltage $U_s$ at AC 60HZ		V	0 - 0
Rated control supply voltage $U_s$ at DC		V	0 - 0
Voltage type for actuating			AC
Rated operation power at AC-3, 230 V, 3-phase		kW	3
Rated operation power at AC-3, 400 V		kW	5.5
Rated power, 460 V, 60 Hz, 3-phase		kW	0
Rated power, 575 V, 60 Hz, 3-phase		kW	0
Rated operation current $I_e$		A	11.3
Rated operation current at AC-3, 400 V		A	12
Overload release current setting		A	8 - 12
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, 230 V		A	0
Rated conditional short-circuit current, type 2, 400 V		A	0
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as normally closed contact			0
Ambient temperature, , upper operating limit		°C	60
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			Screw connection
Rail mounting possible			Yes
Degree of protection (IP)			IP20
Supporting protocol for TCP/IP			No
Supporting protocol for PROFIBUS			No
Supporting protocol for CAN			No

Supporting protocol for INTERBUS	No
Supporting protocol for ASI	No
Supporting protocol for MODBUS	No
Supporting protocol for Data-Highway	No
Supporting protocol for DeviceNet	No
Supporting protocol for SUCONET	No
Supporting protocol for LON	No
Supporting protocol for PROFINET IO	No
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	No
Supporting protocol for DeviceNet 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)

<b>IL034030ZU Electrical connector</b>	
IL034030ZU Electrical connector	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034030ZU2015_04.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034030ZU2015_04.pdf</a>
<b>IL015082ZU Adapter</b>	
IL015082ZU Adapter	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL015082ZU2017_05.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL015082ZU2017_05.pdf</a>
Motor starters and "Special Purpose Ratings" for the North American market	<a href="http://www.moeller.net/binary/ver_techpapers/ver953en.pdf">http://www.moeller.net/binary/ver_techpapers/ver953en.pdf</a>
Busbar Component Adapters for modern Industrial control panels	<a href="http://www.moeller.net/binary/ver_techpapers/ver960en.pdf">http://www.moeller.net/binary/ver_techpapers/ver960en.pdf</a>