## DATASHEET - MSC-R-16-M15(24VDC)-PI

Reversing starter, 380 V 400 V 415 V: 7.5 kW, Ir = 10 - 16 A, 24 V DC, DC voltage, Push in terminals



Part no.	MSC-R-16-M15(24VDC)-PI
Catalog No.	199604
Alternate Catalog	XTSRPI016B015BTDNL
No.	

## **Delivery program**

Basic function			Reversing starters (complete devices)	
Basic device			MSC	
Notes			Not suitable for motors with efficiency class IE3.	
Connection technique			Push in terminals	
Connection to SmartWire-DT			no	
Motor ratings				
Motor rating				
AC-3				
380 V 400 V 415 V	Р	kW	7.5	
Rated operational current				
AC-3				
380 V 400 V 415 V	le	А	15.2	
Rated short-circuit current 380 - 415 V	Ιq	kA	50	
Setting range				
Setting range of overload releases	l <sub>r</sub>	A	10 - 16	
Coordination			Type of coordination "1"	
Actuating voltage			24 V DC	
			DC voltage	
Motor-protective circuit-breakers PKZM0-16				
Contactor DILM15-01()				
DOL starter wiring set Mechanical connection element and electrical electric contact module PKZM0-XRM12-PI				
Notes				

The reversing starter (complete unit) consists of a PKZM0 motor-protective circuit-breaker and two DILM contactors.

With the adapter-less top-hat rail mounting of starters up to 12 A, only the motor-protective circuit-breaker on the top-hat rail requires an adapter. The contactors are provided with mechanical support via a mechanical connection element.

Control wire guide with max. 6 conductors up to 2.5mm external diameter or 4 conductors up to 3.5mm external diameter.

From 16 A, the motor-protective circuit-breakers and contactors are mounted on the top-hat rail adapter plate.

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

Complete units with mechanical interlock, starters up to 12 A also feature electrical interlock.

When using the auxiliary contacts DILA-XHIT... (-> 101042) the plug-in electrical connector can be removed without the removal of the front mounting auxiliary contact.

For further information	Page
Technical data PKZM0	→ PKZM0
Accessories PKZ	→ 072896
Technical data DILM	→ DILM
Further actuating voltages	→ 276537
DILM accessories	→ 281199

## **Technical data**

General					
Standards			IEC/EN 60947-4-1, VDE 0673		
Altitude		m	Max. 2000		
Ambient temperature			-25 - +55		
Main conducting paths					
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000		

Overvoltage category/pollution degree			111/3
Rated operational voltage	U <sub>e</sub>	V	230 - 415
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
380 V 400 V	le	А	15
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
Power consumption			
DC operated	Sealing	W	4,5
Design verification as per IEC/EN 61439			

Design vernication as per indicities			
Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55

## **Technical data ETIM 8.0**

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@ss10.0.1-27-37-09-05 [AJZ718013])

[AJZ718013])		
Type of motor starter		Reversing starter
With short-circuit release		Yes
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	24 - 24
Voltage type for actuating		DC
Rated operation power at AC-3, 230 V, 3-phase	kW	4
Rated operation power at AC-3, 400 V	kW	7.5
Rated power, 460 V, 60 Hz, 3-phase	kW	0
Rated power, 575 V, 60 Hz, 3-phase	kW	0
Rated operation current le	А	15.2
Rated operation current at AC-3, 400 V	А	15
Overload release current setting	А	10 - 16
Rated conditional short-circuit current, type 1, 480 Y/277 V	А	0
Rated conditional short-circuit current, type 1, 600 Y/347 V	А	0
Rated conditional short-circuit current, type 2, 230 V	А	0
Rated conditional short-circuit current, type 2, 400 V	А	50000
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Ambient temperature, upper operating limit	°C	55
Temperature compensated overload protection		Yes
Release class		CLASS 10 A
Type of electrical connection of main circuit		Spring clamp connection
Type of electrical connection for auxiliary- and control current circuit		Spring clamp connection
Rail mounting possible		Yes
With transformer		No
Number of command positions		0
Suitable for emergency stop		No
Coordination class according to IEC 60947-4-3		Class 1
Number of indicator lights		0
External reset possible		No
With fuse		No
Degree of protection (IP)		IP20
Degree of protection (NEMA)		Other
Supporting protocol for TCP/IP		No

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