DATASHEET - LSC01-20-L20(230V50HZ,240V60HZ)



Starter for lamp load HQ, L20A

Part no. LSC01-20-L20(230V50HZ,240V60HZ)
Catalog No. 106146

Alternate Catalog XTST020C00F020NL

No.



Technical data General

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
Additional technical data			
Rated operational voltage	U _e	٧	230 - 415
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Main conducting paths			
Ambient temperature			-25 - +55
Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)

Design verification as per IEC/EN 61439

2001gii 1011110441011 40 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	2.6
Equipment heat dissipation, current-dependent	P _{vid}	W	7.8
Static heat dissipation, non-current-dependent	P_{vs}	W	2.1
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/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 7.0

ated control supply voltage Us at AC 50HZ ated control supply voltage Us at AC 60HZ ated control supply voltage Us at AC 60HZ ated control supply voltage Us at DC v 0 - 0 AC ated operation current le at AC-1, 400 V ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V but ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V but operation power new AC-3, 400 V but operation power new AC-4, 400 V but operat						
ated control supply voltage Us at AC 50HZ ated control supply voltage Us at AC 60HZ ated control supply voltage Us at AC 60HZ ated control supply voltage Us at DC v 0 - 0 AC ated operation current le at AC-1, 400 V ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V but ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V but ated operation power new AC-4, 400 V but operation power new AC-3, 400 V but operation power new AC-4, 400 V but operat	Low-voltage industrial components (EG000017) / Power contactor, AC switching (E	C000066)				
ated control supply voltage Us at AC 60HZ v 240 - 240 oltage type for actuating ated operation current le at AC-1, 400 V ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA Modular version Industry contacts as normally open contact where of auxiliary contacts as normally closed contact where of electrical connection of main circuit where of normally closed contacts as main contact where of normally closed contacts as main contact o 0 240 - 240 AC 0 - 0 AC 0 - 0 AC AC A 0 A 0 A 0 A 0 A 0 A 0 A 0 A O O	Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])					
ated control supply voltage Us at DC v 0 - 0 oltage type for actuating ated operation current le at AC-1, 400 V ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA Modular version lumber of auxiliary contacts as normally closed contact ype of electrical connection of main circuit lumber of normally closed contacts as main contact lumber of normally closed co	Rated control supply voltage Us at AC 50HZ	\	V	230 - 230		
oltage type for actuating ated operation current le at AC-1, 400 V ated operation power at AC-3, 400 V ated operation power at AC-3, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power AC-4, 400 V ated operation power NEMA bulliary contacts as normally open contact bulliary contacts as normally closed contact bulliary contacts as main contact bulliary contacts as	Rated control supply voltage Us at AC 60HZ	\	V	240 - 240		
ated operation current le at AC-1, 400 V ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA A O ated operation power NEMA kW 0 ated operation power NEMA No doular version lumber of auxiliary contacts as normally open contact lumber of auxiliary contacts as normally closed contact ype of electrical connection of main circuit lumber of normally closed contacts as main contact O Corew connection O Corew connection O Corew connection	Rated control supply voltage Us at DC	\	V	0 - 0		
ated operation current le at AC-3, 400 V ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA AW O Andodular version Aww Imper of auxiliary contacts as normally open contact Imper of auxiliary contacts as normally closed contact Awy open of electrical connection of main circuit Imper of normally closed contacts as main contact	Voltage type for actuating			AC		
ated operation power at AC-3, 400 V ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA kW 0 A 0 A 0 A in the operation power NEMA kW 0 A in the operation power NEMA kW in the operation power NEMA in the operation power at AC-4, 400 V in the operation power at A	Rated operation current le at AC-1, 400 V	,	A	20		
ated operation current le at AC-4, 400 V ated operation power at AC-4, 400 V ated operation power NEMA kW 0 Modular version lumber of auxiliary contacts as normally closed contact ype of electrical connection of main circuit lumber of normally closed contacts as main contact 0 Contacts as main contact	Rated operation current le at AC-3, 400 V	,	A	0		
ated operation power at AC-4, 400 V ated operation power NEMA kW 0 Modular version No lumber of auxiliary contacts as normally open contact upper of electrical connection of main circuit lumber of normally closed contacts as main contact 0 Crew connection 0 Crew connection	Rated operation power at AC-3, 400 V	ŀ	kW	0		
ated operation power NEMA kW 0 Modular version No lumber of auxiliary contacts as normally open contact 0 lumber of auxiliary contacts as normally closed contact 0 ype of electrical connection of main circuit 0 lumber of normally closed contacts as main contact 0 lumber of normally closed contacts as main conta	Rated operation current le at AC-4, 400 V	,	A	0		
Modular version Itumber of auxiliary contacts as normally open contact Itumber of auxiliary contacts as normally closed contact Itumber of normally closed contacts as main contact	Rated operation power at AC-4, 400 V	ŀ	kW	0		
lumber of auxiliary contacts as normally open contact O lumber of auxiliary contacts as normally closed contact O screw connection Umber of normally closed contacts as main contact O	Rated operation power NEMA	ŀ	kW	0		
lumber of auxiliary contacts as normally closed contact o ype of electrical connection of main circuit screw connection o o o o o o o o o o o o	Modular version			No		
ype of electrical connection of main circuit Screw connection umber of normally closed contacts as main contact 0	Number of auxiliary contacts as normally open contact			0		
lumber of normally closed contacts as main contact 0	Number of auxiliary contacts as normally closed contact			0		
	Type of electrical connection of main circuit			Screw connection		
lumber of main contacts as normally open contact 3	Number of normally closed contacts as main contact			0		
	Number of main contacts as normally open contact			3		