Product data sheet Characteristics

LC1D95R7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 440 V AC 50/60 Hz coil





Main

Range	TeSys D		
Product name	TeSys D		
Product or component type			
Device short name	LC1D		
Contactor application	Resistive load Motor control		
Utilisation category	AC-3 AC-1 AC-4		
Poles description	3P		
Power pole contact composition	NO 20		
[Ue] rated operational voltage			
[le] rated operational current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 95 A (at <60 °C) at <= 440 V AC AC-3 for power circuit		
Motor power kW	45 kW at 415440 V AC 50/60 Hz (AC-3) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660690 V AC 50/60 Hz (AC-3) 45 kW at 1000 V AC 50/60 Hz (AC-3) 15 kW at 400 V AC 50/60 Hz (AC-4) 25 kW at 220230 V AC 50/60 Hz (AC-3)		
Motor power HP (UL / CSA)	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors		
Control circuit type	AC at 50/60 Hz		
[Uc] control circuit voltage	440 V AC 50/60 Hz		
Auxiliary contact composition	1 NO + 1 NC		
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947		
Overvoltage category			

[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit		
Irms rated making capacity	125 A (at 60 °C) for power circuit 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1		
	1100 A at 440 V for power circuit conforming to IEC 60947		
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947		
[lcw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 800 A 40 °C - 10 s for power circuit 400 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit		
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit		
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified		
Electrical durability	1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 at Ue <= 440 V		
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3		
Front cover	With		
Mounting support	Plate Rail		
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508		
Product certifications	CCC LROS (Lloyds register of shipping) RINA DNV BV GOST GL		
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 425 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 416 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²solid without cable end Power circuit: connector 2 cable(s) 450 mm²solid without cable end Power circuit: connector 2 cable(s) 425 mm²solid without cable end		
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 9 N.m - on connector hexagonal screw head 4 mm		
Operating time	2035 ms closing 620 ms opening		
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1		
Mechanical durability	4 Mcycles		
Maximum operating rate	3600 cyc/h 60 °C		

Complementary

Coil technology	Without built-in suppressor module	
Inrush power in VA	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	610 W at 50/60 Hz	
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
Signalling circuit frequency	25400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
Insulation resistance	> 10 MOhm for signalling circuit	
Contact compatibility	M11	
Compatibility code	LC1D	

Environment

Environment			
IP degree of protection	IP20 front face conforming to IEC 60529		
Protective treatment	TH conforming to IEC 60068-2-30		
Pollution degree	3		
Ambient air temperature for storage	-6080 °C		
Operating altitude	3000 m without derating		
Fire resistance	850 °C conforming to IEC 60695-2-1		
Flame retardance	V1 conforming to UL 94		
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms		
Height	127 mm		
Width	85 mm		
Depth	130 mm		
Net weight	1.61 kg		

Packing Units

r acking Office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.558 kg
Package 1 Height	9.5 cm
Package 1 width	13.6 cm
Package 1 Length	13.8 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	8.172 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Compliant

EU RoHS Declaration

Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	

Contractual warranty

Warranty	18 months	



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