

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 220 V DC coil

Local distributor code: 402770242 LC1D253MD

١	V	1	а	ı	r

iviaiii			
Range	TeSys TeSys Deca		
Product name	TeSys D TeSys Deca		
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Motor control Resistive load		
Utilisation category	AC-4 AC-1 AC-3 AC-3e		
Poles description	3P		
Power pole contact composition	3 NO		
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC		
[le] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-3e for power circuit		
Motor power kW	5.5 kW at 220230 V AC 50/60 Hz (AC-3) 11 kW at 380400 V AC 50/60 Hz (AC-3) 11 kW at 415440 V AC 50/60 Hz (AC-3) 15 kW at 500 V AC 50/60 Hz (AC-3) 15 kW at 660690 V AC 50/60 Hz (AC-3) 5.5 kW at 400 V AC 50/60 Hz (AC-4) 5.5 kW at 220230 V AC 50/60 Hz (AC-3e) 11 kW at 380400 V AC 50/60 Hz (AC-3e) 11 kW at 415440 V AC 50/60 Hz (AC-3e) 15 kW at 500 V AC 50/60 Hz (AC-3e) 15 kW at 660690 V AC 50/60 Hz (AC-3e)		
Motor power HP (UL / CSA)	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 460/480 V AC 50/60 Hz for 3 phases motors 20 hp at 575/600 V AC 50/60 Hz for 3 phases motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors		
Control circuit type	DC standard		
[Uc] control circuit voltage	220 V DC		
Auxiliary contact composition	1 NO + 1 NC		
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947		
Overvoltage category	III		

[Ith] conventional free air thermal current	25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 A 1 °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 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm - Ith 25 A 50 Hz for power circuit	
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified	
Electrical durability	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V 1.65 Mcycles 25 A AC-3e at Ue <= 440 V	
Power dissipation per pole	3.2 W AC-1 1.25 W AC-3 1.25 W AC-3e	
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 IEC 60335-1	
Product certifications	UL CSA BV CCC GL DNV LROS (Lloyds register of shipping) RINA GOST UKCA	
Connections - terminals	Control circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end Power circuit: spring terminals 1 cable(s) 4 mm²flexible without cable end Power circuit: spring terminals 2 cable(s) 4 mm²flexible without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
Operating time	53.5572.45 ms closing 1624 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	30 Mcycles	
Maximum operating rate	3600 cyc/h 60 °C	
Complementary		
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	

Time constant	28 ms		
Inrush power in W	5.4 W (at 20 °C)		
Hold-in power consumption in W	5.4 W at 20 °C		
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		
Environment			
IP degree of protection	IP20 front face conforming to IEC 60529		
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D		
Protective treatment	TH conforming to IEC 60068-2-30		
Pollution degree	3		
Ambient air temperature for operation	-40…60 °C 60…70 °C with derating		
Ambient air temperature for storage	-6080 °C		
Operating altitude	03000 m		
Fire resistance	850 °C conforming to IEC 60695-2-1		
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms		
Height	99 mm		
Width	45 mm		
Depth	101 mm		
Net weight	0.53 kg		
Packing Units			
Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Weight	600.0 g		
Package 1 Height	11.4 cm		
Package 1 width	11 cm		
Package 1 Length	5.4 cm		
Unit Type of Package 2	S02		
Number of Units in Package 2	15		
Package 2 Weight	9.455 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 Regulation	REACh Declaration		
EU RoHS Directive	Compliant EU RoHS Declaration		
Mercury free	Yes		
RoHS exemption information	Yes		
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
PVC free	Yes		

Contractual warranty

Warranty	18 months	
----------	-----------	--