BF40000E024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 24...60VAC - 20...60VDC



Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith ≤ 40°C		A	600
Operational current Ie			
	AC-1 (≤40°C)	A	600
	AC-1 (≤55°C)	A	500
	AC-1 (≤70°C)	A	435
	AC-3 (≤440V ≤55°C)	A	400
	AC-4 (400V)	A	190
Rated operational power AC-3 (T≤55°C)			
	230V	kW	110
	400V	kW	200
	415V	kW	200
	440V	kW	200
	500V	kW	250
	690V	kW	315
	1000V	kW	200
Rated operational current AC-3 (T≤55°C)			
	230V	A	400
	400V	A	400
	415V	A	400
	440V	A	400
	500V	A	350
	690V	A	350
	1000V	A	155
Rated operational power AC-1 (T≤40°C)			
	230V	kW	227
	400V	kW	395
	500V	kW	434
	690V	kW	681
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	A	400
	110V	A	250
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	A	400
	110V	A	400
	220V	A	350
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	A	400
	110V	A	400

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	220V	A	400
	330V	A	350
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	A	400
	110V	A	400
	220V	A	400
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	350
	110V	A	200
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	350
	110V	A	350
	220V	A	280
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	350
	110V	A	350
	220V	A	350
	330V	A	280
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	350
	110V	A	350
	220V	A	350
	330V	A	350
	460V	A	280
Short-time allowable current for 10s (IEC/EN60947-1)		A	3200
Protection fuse			
	gG (IEC)	A	800
	aM (IEC)	A	500
Making capacity (RMS value)		A	4000
Breaking capacity at voltage			
	440V	A	3200
	500V	A	2752
	690V	A	2504
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
	Ith	W	43.2
	AC-3	W	19
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	lbin	310
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Operations			
Mechanical life		cycles	5000000

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Electrical life			cycles	600000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	600000
		mechanical load	cycles	5000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	24
		max	V	60
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	6.4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	6.4
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	6.4
Dissipation at holding ≤20°C 50Hz			W	3.5…8.0
DC coil operating				
DC rated control voltage				
		min	V	20
		max	V	60
max			V	60
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consumption ≤20°C				
		in-rush	W	220
		holding	W	2.7
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us control				
	in AC			

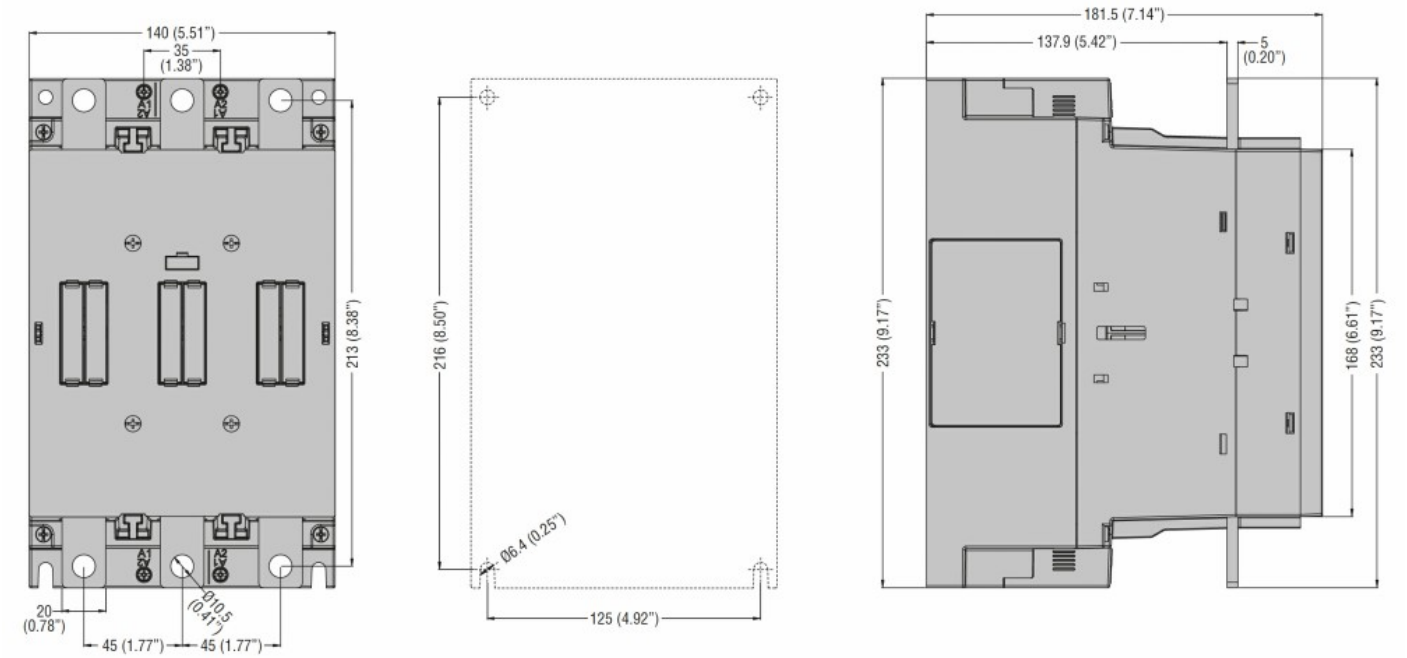
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	Closing NO			
		min	ms	80
		max	ms	120
	Opening NO			
		min	ms	30
		max	ms	75
UL technical data				
Rated operational voltage AC (UL)			V	600
Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	125
		220/240V	HP	150
		460/480V	HP	350
		575/600V	HP	400
General USE				
	Contactor			
		AC current	A	600
Short-circuit protection fuse, 600V				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	600
		Fuse class		J
	Standard fault			
		Short circuit current	kA	18
		Fuse rating	A	600
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

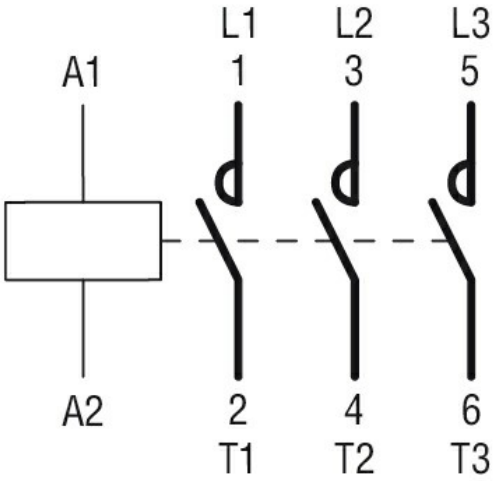
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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60335-2-89
IEC/EN/BS 60947-1
IEC/EN/BS 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L
CSA C22.2 No. 60335-2-89:21 LZGH A2L
cULus
UL 60335-2-40 LZGH A2L
UL 60335-2-89 LZGH A2L

ETIM classification

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ETIM 8.0

EC000066 - Power contactor, AC switching

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