

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH 110...125VAC

ENERGY AND AUTOMATION



Product designation			Power contactor B400
Product type designation Contact characteristics			Б400
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		IX V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdx	A	550
Operational current le			330
Operational current le	AC-1 (≤40°C)	Α	550
	AC-1 (≤55°C)	A	430
	AC-1 (≤33°C) AC-1 (≤70°C)	A	360
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	420
	AC-3 (<u>3440V</u> <u>355 C)</u> AC-4 (400V)	A	200
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		200
Trated operational power AO-5 (1=55 O)	400V	kW	225
Rated operational power AC-1 (T≤40°C)	400 V	KVV	223
Trated operational power AC-1 (1340 C)	230V	kW	200
	400V	kW	345
	500V	kW	452
	690V	kW	598
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	390
The max current le in DCT with Lift 2 mis with 1 poles in series	75V	Α	400
	110V	A	250
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		
The max current le in bot with bit a mile with 2 poles in series	75V	Α	400
	110V	A	400
	220V	A	350
	330V	A	
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	400 V		
TEC max current le in DCT with E/N = mis with 5 poles in series	75V	۸	400
	110V	A A	400 400
	220V	A	400
	330V		350
	460V	Α Δ	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	4007	A	
TEC max current le in DCT with L/R > This with 4 poles in series	7E\/	٨	400
	75V	A	400
	110V	A	400
	220V	Α	400

Lovato

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

110...125VAC

	330V	Α	400
	460V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			_
·	75V	Α	350
	110V	Α	200
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		,,	_
120 max carrent to in 200 200 mai 2/11 forms mai 2 poise in conce	75V	Α	350
	110V	Α	350
	220V	A	280
	330V	A	
	460V	A	
IFC may current to in DC2 DC5 with L/D < 15 mg with 2 notes in series	400 V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75\/	۸	250
	75V	A	350
	110V	A	350
	220V	Α	350
	330V	Α	280
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	350
	110V	Α	350
	220V	Α	350
	330V	Α	280
	460V	Α	280
Short-time allowable current for 10s (IEC/EN60947-1)		Α	3600
Protection fuse			
	gG (IEC)	Α	630
	aM (IEC)	Α	400
Making capacity (RMS value)	,	Α	4200
Breaking capacity at voltage			
	440V	Α	4000
	500V	Α	3400
	690V	Α	3360
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)		11122	0.2
Tower dissipation per pole (average value)	Ith	W	52
	AC-3	W	32
Tightening torque for terminals	AC-3	VV	32
rightening torque for terminals		Nina	25
	min	Nm	35
	max ·	Nm	35
	min	lbin 	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 300 kcmil

Lovato

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

110...125VAC

Mechanical features Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data	normal allowable		Vertical plan
Fixing Veight Operations Mechanical life Electrical life			
Veight Derations Mechanical life Electrical life			
Weight Descriptions Mechanical life Electrical life	anowabic		±30°
Weight Degrations Mechanical life Electrical life			Screw
Operations Mechanical life Electrical life		α	1024
Mechanical life		g	1024
Electrical life		ovelee	1000000
		cycles	10000000
Sataty related data		cycles	700000
•			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			Yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	110
	max	V	125
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
·	min	%Us	80
	max	%Us	110
drop-out			
'	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up			
pion ap	min	%Us	80
	max	%Us	110
drop-out	max	7000	
arop out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz	max	7003	- 00
pick-up			
pick-up	min	%Us	80
		%Us	110
drap out	max	%US	110
drop-out	mi-	0/110	20
	min	%Us	20
AC average call consumention at 20°C	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz		\	000
	in-rush	VA	300
	holding	VA	10
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz		W	10
DC coil operating			
DC rated control voltage			
	min	V	110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

110...125VAC

			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		min	%Us	20
			min max	%Us	60
Average coil consumpt	tion ≤20°C		max	7003	
, wordgo oon oonodinp			in-rush	W	300
			holding	W	10
Max cycles frequency			, and the second		
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	0			
		Closing NO	i		0.0
			min	ms ms	80 120
		Opening NO	max	1115	120
		opening 140	min	ms	30
			max	ms	75
	in DC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
UL technical data			max	ms	75
Rated operational volta	age AC (UL)			V	600
Full-load current (FLA)		notor		<u>-</u>	
(,	р		at 480V	Α	414
			at 600V	Α	382
Yielded mechanical pe	erformance				
	for three-phase AC	motor			
			200/208V	HP	125
			220/230V	HP	150
			460/480V	HP	350
General USE			575/600V	HP	400
General USE	Contactor				
	Contactor		AC current	Α	550
Short-circuit protection	n fuse, 600V		7.0 00.10111		
,	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	800
			Fuse class		L
Ambient conditions					
Ambient conditions Temperature	Onematical				
	Operating temperate	ure	aan taa	°C	50
	Operating temperate	ure	min may	°C	-50 70
	Operating temperate		min max	°C °C	-50 70



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH 110...125VAC

ENERGY AND AUTOMATION

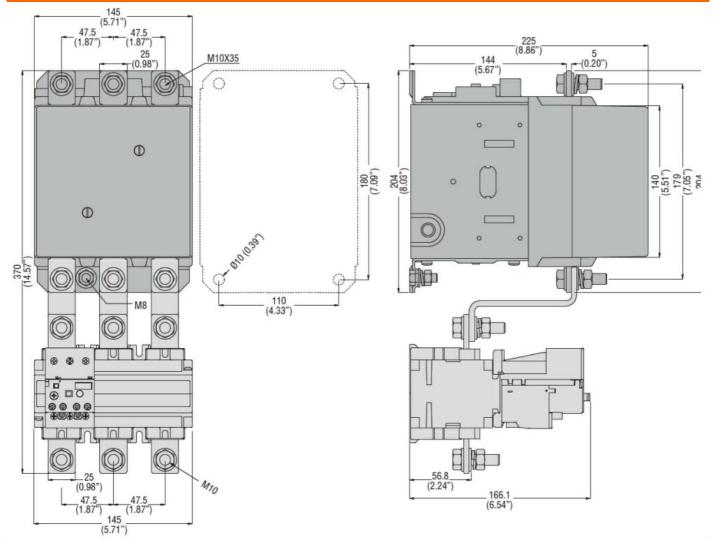
min	°C	-60	
max	°C	80	

Max altitude 3000 m

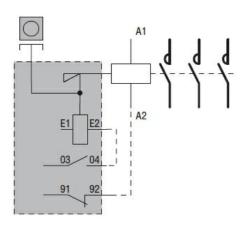
Resistance & Protection

Pollution degree 3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

Lovato

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION 110...125VAC/DC, MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL (G495), 11

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

CCC
cULus

ETIM classification

EAC

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching