THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 380...415VAC/DC, MECHANICAL LATCH 380...415VAC

**ENERGY AND AUTOMATION** 



Product type designation	Product designation			Power contactor
Number of poles	Product type designation			B400
Rated insulation voltage U IEC/EN         V         1000           Rated impulse withstand voltage Uimp         kV         8           Operational frequency         min         Hz         25           IEC Conventional free air thermal current Ith         A         550           Operational current Ie         AC-1 (≤40°C)         A         350           AC-1 (≤55°C)         A         430         AC-1 (≤55°C)         A         430           AC-1 (≤40°C)         A         360         AC-1 (≤40°C)         A         360           AC-3 (≤440V ≤55°C)         A         420         AC-4 (400V)         A         200           Rated operational power AC-3 (T≤55°C)         400V         kW         225         A         430           Rated operational power AC-1 (T≤40°C)         230V         kW         200         A         400         400         kW         225           Rated operational power AC-1 (T≤40°C)         230V         kW         200         A         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400	Contact characteristics			
Rated impulse withstand voltage Ulimp	Number of poles		Nr.	3
Dispersational frequency	Rated insulation voltage Ui IEC/EN		V	1000
EC Conventional free air thermal current lth	Rated impulse withstand voltage Uimp		kV	8
EC Conventional free air thermal current Ith	Operational frequency			
EC Conventional free air thermal current lith		min	Hz	25
Operational current le         AC-1 (≤40°C)       A       550         AC-1 (≤55°C)       A       430         AC-1 (≤70°C)       A       360         AC-3 (≤440V ≤55°C)       A       420         AC-4 (400V)       A       200         Rated operational power AC-3 (T≤55°C)         230V       kW       200         400V       kW       240         400V       kW       345         500V       kW       452         690V       kW       598         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         75V       A       400         110V       A       250         220V       A       -         460V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series         75V       A       400         110V       A       400         120V       A       400         110V       A       400         220V       A       330         A       -       460V       A         -       460V       A       - <td></td> <td>max</td> <td>Hz</td> <td>400</td>		max	Hz	400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	550
AC-1 (≤55°C)	Operational current le			
AC-1 (≤70°C)		AC-1 (≤40°C)	Α	550
AC-3 (≤440V ≤55°C)			Α	430
Rated operational power AC-3 (T≤55°C)   400V   kW   225		· ·	Α	
Rated operational power AC-3 (T≤55°C)         Rated operational power AC-1 (T≤40°C)       230V kW 200 400V kW 345 500V kW 345 500V kW 452 690V kW 598         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       75V A 400 110V A 250 220V A 330V A 460V A 75V A 400 110V A 400 220V A 350 330V A 460V A 160V A A 160V A 160V A A 160V A 160V A A 160V A A 160V A A 160V A		•	Α	420
Rated operational power AC-1 (T≤40°C)    230V   kW   200     400V   kW   345     500V   kW   452     690V   kW   598     EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series    75V   A   400     110V   A   250     220V   A       330V   A       460V   A       110V   A   400     110V   A   400     120V   A   350     330V   A       EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series    75V   A   400     110V   A   400     220V   A   350     330V   A       460V   A       EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series    75V   A   400     110V   A   400     220V   A   350     330V   A   350     330V		AC-4 (400V)	Α	200
Rated operational power AC-1 (T≤40°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  75V A 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  75V A 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  75V A 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  75V A 400 110V A 400 220V A 350 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 400 110V A 400 220V A 350 330V A 350	Rated operational power AC-3 (T≤55°C)			
		400V	kW	225
A00V   kW   345   500V   kW   452   690V   kW   598	Rated operational power AC-1 (T≤40°C)			
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   75V		230V	kW	200
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   75V		400V	kW	345
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		500V	kW	452
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		690V	kW	598
	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
			Α	400
BEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   T5V			Α	250
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   75V			Α	
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
EC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series   75V   A   400   110V   A   400   220V   A   400   330V   A   350   460V   A				350
IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	A	
	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 400 110V A 400				350
75V A 400 110V A 400	150	460V	Α	
110V A 400	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	
$220V$ $\Lambda$ $\Lambda00$				
220V A 400		220V	Α	400

Lovato

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**ENERGY AND AUTOMATION** 

380...415VAC

	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			
	75V	Α	350
	110V	Α	350
	220V	Α	280
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	350
	110V	Α	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	100 V	- , ,	
TEO MAX GUITOR TO IN BOO BOO WILL ETC = TO HIS WILL 4 POICE IN SCHOOL	75V	Α	350
	110V	A	350
	220V	A	350
	330V	A	280
	460V	A	280
Chart time allowable autrent for 10e (IEC/ENCO047.1)	400 V		3600
Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse		^	3000
Flotection ruse	aC (IEC)	۸	630
	gG (IEC)	A	630
Making canacity (DMC value)	aM (IEC)	<u>А</u> А	400
Making capacity (RMS value)		A	4200
Breaking capacity at voltage	4.403.4	•	4000
	440V	A	4000
	500V	A	3400
	690V	A	3360
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	Ith	W	52
	AC-3	W	32
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			

2x 300 kcmil

max

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**ENERGY AND AUTOMATION** 380...415VAC

Power terminal protect	ion according to IEC/EN 60529			IP00
Mechanical features	3			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1020
Conductor section				_
	AWG/kcmil conductor section			
		max		2x 300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	10000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	380
		max	V	415
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	_	max	%Us	110
	drop-out			
		min	%Us	20
	7.70 (001)	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	!	0/11-	0.0
		min	%Us	80
	drap aut	max	%Us	110
	drop-out	min	0/116	20
		min	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	max	/005	00
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	arop cut	min	%Us	20
		max	%Us	60
AC average coil consu	motion at 20°C	max	7000	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	9		-
	23, 22. <u>2</u> 22. pana. 22 at 201 12	in-rush	VA	300
		holding	VA	10
Dissipation at holding ≤	≤20°C 50Hz	9	W	10

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**ENERGY AND AUTOMATION** 

DO 11 11 11					
DC coil operating					
DC rated control voltag	e				
			min	V	380
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	ion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ntrol				
ŭ	in AC				
		Closing NO			
		3 - 1	min	ms	80
			max	ms	120
		Opening NO			-
		9,110	min	ms	30
			max	ms	75
	in DC				-
	50	Closing NO			
		Closing 110	min	ms	80
			max	ms	120
		Opening NO	max	1110	120
		Opening 140	min	ms	30
			max	ms	75
UL technical data			IIIAX	1113	7.5
Full-load current (FLA)	for throo-phase AC m	otor			
Tull-load culterit (TLA)	ioi iiiiee-piiase AC iii	iotoi	at 480V	Α	414
Violded mechanical re-	rformanaa		at 600V	Α	382
Yielded mechanical pe		motor			
	for three-phase AC r	HOTOL	000/0001	LID	105
			200/208V	HP	125
			220/230V	HP	150
			460/480V	HP	350
0			575/600V	HP	400
General USE	0 4 4				
	Contactor				
			AC current	Α	550
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	800
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperatu	ire			
			min	°C	-50



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**ENERGY AND AUTOMATION** 

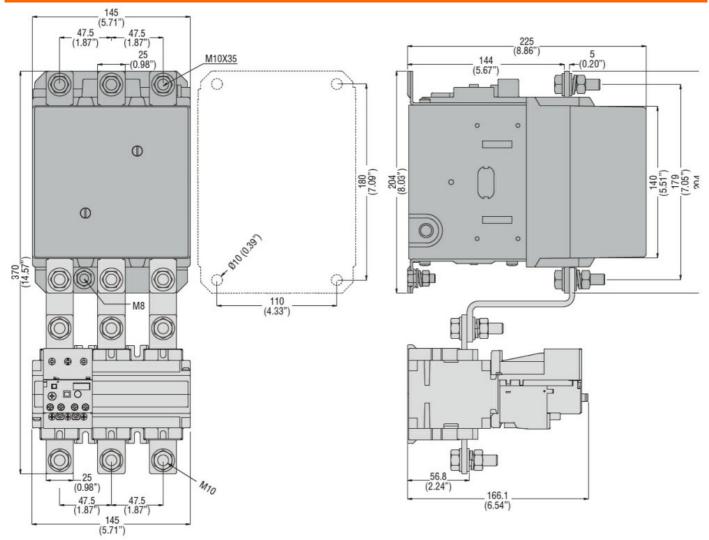
	max	°C	70
Storage temperature			_
	min	°C	-60
	max	°C	80
		m	3000

Resistance & Protection

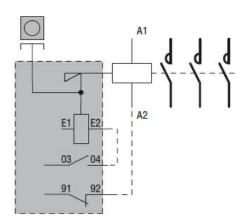
3 Pollution degree

## Dimensions

Max altitude



## Wiring diagrams



## Certifications and compliance

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 380...415VAC/DC, MECHANICAL LATCH **ENERGY AND AUTOMATION** 380...415VAC

Compliance

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

IEC/EN 60947-4-1

UL 60947-1 UL 60947-4-1

Certificates

CCC cULus **EAC** 

ETIM classification

EC000066 -**ETIM 8.0** Power contactor, AC switching