Lovato

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 110A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION 110...125VAC



Product designation			Power contactor
Product type designation			B115
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		Α	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	150
	AC-1 (≤70°C)	Α	110
	AC-3 (≤440V ≤55°C)	Α	110
	AC-4 (400V)	Α	47
Rated operational power AC-3 (T≤55°C)			
	400V	kW	61
Rated operational power AC-1 (T≤40°C)			
	230V	kW	57
	400V	kW	98
	500V	kW	129
	690V	kW	173
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	160
	110V	Α	100
	220V	Α	_
	330V	Α	_
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	160
	110V	Α	130
	220V	Α	100
	330V	Α	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	160
	110V	Α	130
	220V	Α	130
	330V	Α	100
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	75V	Α	160
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	75V 110V 220V	A A A	160 130 130

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	330V	Α	130
	460V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	75V	Α	140
	110V	Α	70
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
μ	75V	Α	140
	110V	Α	100
	220V	Α	80
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
TEC max current le in DC3-DC3 with E/N 3 13ms with 3 poles in series	75V	Α	140
	110V	A	120
	220V	A	100
	330V	A	80
150 DOS DOS 111 L/D 4.45 111 4 1 1 1 1	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	75V	Α	140
	110V	Α	120
	220V	Α	120
	330V	Α	120
	460V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1100
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1300
Breaking capacity at voltage			
	440V	Α	1300
	500V	Α	1100
	690V	Α	880
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
,	Ith	W	7.7
	AC-3	W	4
Tightening torque for terminals			•
Tighterming terique for terminate	min	Nm	10
	max	Nm	10
	min	Ibin	7.4
	max	Ibin	7.4
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		INI.	
AWG/Kcmil			2/0
De contracte de contracte de la CONTRACTE DE	max		2/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°

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ENERGY AND AUTOMATION

110...125VAC

Fixing			Screw
Weight		g	6
Conductor section			
AWG/kcmil conductor section			0.10
Onevetions	max		2/0
Operations Mechanical life		ovoloo	1000000
Electrical life		cycles cycles	10000000
Safety related data		Cycles	1100000
Performance level B10d according to EN/ISO 13489-1			
Tollowing to Environ 10 to 100 T	rated load	cycles	1100000
	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	220
	max	V	240
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		%Us	0.0
	min max	%Us %Us	80 110
drop-out	Παλ	/003	110
diop out	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up		0/116	0.0
	min	%Us %Us	80 110
drop-out	max	/005	110
arop out	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	10
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	300
Discipation at holding <20°C FOLI-	holding	VA	10
Dissipation at holding ≤20°C 50Hz DC coil operating		W	10
DC rated control voltage			
Taled Control voltage	min	V	220
	max	V	240
DC operating voltage	max	•	

110...125VAC

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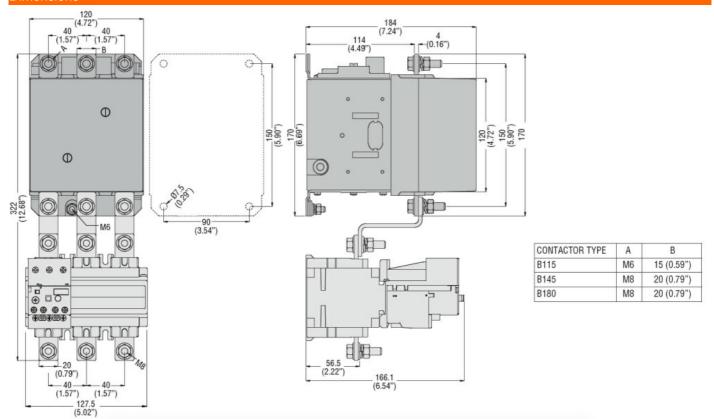
	pick-up			0/11	0.0
			min	%Us	80
			max	%Us	110
	drop-out		i-	0/116	20
			min	%Us	20
Average seil sensumn	tion <20°C		max	%Us	60
Average coil consump	11011 ≥20 C		in ruch	14/	200
			in-rush	W W	300 10
Max cycles frequency			holding	VV	10
Mechanical operation				cycles/h	2400
Operating times				Cycles/11	2400
Average time for Us co	ontrol				
Average uniterior 65 oc	in AC				
	III AO	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	παλ	1113	100
		opoling NO	min	ms	25
			max	ms	60
	in DC		max	1110	
		Closing NO			
		Closing 110	min	ms	60
			max	ms	100
		Opening NO	max	1110	100
		Oponing 110	min	ms	25
			max	ms	60
					• •
UL technical data					
UL technical data Full-load current (FLA)	for three-phase AC mo	tor			
	for three-phase AC mo	tor		A	96
	for three-phase AC mo	tor	at 480V	A A	96 99
Full-load current (FLA)		tor		A A	96 99
	erformance		at 480V		
Full-load current (FLA)			at 480V at 600V	A	99
Full-load current (FLA)	erformance		at 480V		30
Full-load current (FLA)	erformance		at 480V at 600V 200/208V	A HP	99
Full-load current (FLA)	erformance		at 480V at 600V 200/208V 220/230V	A HP HP	30 40
Full-load current (FLA) Yielded mechanical pe	erformance		at 480V at 600V 200/208V 220/230V	A HP HP	30 40
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC m		at 480V at 600V 200/208V 220/230V	A HP HP	30 40
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor		at 480V at 600V 200/208V 220/230V 575/600V	HP HP HP	30 40 100
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor		at 480V at 600V 200/208V 220/230V 575/600V	HP HP HP	30 40 100
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor fuse, 600V		at 480V at 600V 200/208V 220/230V 575/600V	HP HP HP	30 40 100
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor fuse, 600V		at 480V at 600V 200/208V 220/230V 575/600V AC current	HP HP HP	99 30 40 100
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor fuse, 600V		at 480V at 600V 200/208V 220/230V 575/600V AC current	HP HP HP	99 30 40 100 160
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor fuse, 600V		at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating	HP HP HP	99 30 40 100 160 5 500
Full-load current (FLA) Yielded mechanical pe	erformance for three-phase AC me Contactor fuse, 600V		at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating	HP HP HP	99 30 40 100 160 5 500
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	erformance for three-phase AC me Contactor fuse, 600V	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating	HP HP HP	99 30 40 100 160 5 500
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	erformance for three-phase AC me Contactor fuse, 600V Standard fault	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating	HP HP HP	99 30 40 100 160 5 500
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	erformance for three-phase AC me Contactor fuse, 600V Standard fault	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating Fuse class	A HP HP HP A	99 30 40 100 160 5 500 RK5
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	erformance for three-phase AC me Contactor fuse, 600V Standard fault	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Fuse rating Fuse class min	A HP HP HP A	99 30 40 100 160 5 500 RK5
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	crformance for three-phase AC management of the contactor fuse, 600V Standard fault Operating temperature	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Fuse rating Fuse class min	A HP HP HP A	99 30 40 100 160 5 500 RK5
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	crformance for three-phase AC management of the contactor fuse, 600V Standard fault Operating temperature	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Fuse rating Fuse class min max	A HP HP HP A kA A	99 30 40 100 160 5 500 RK5
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	crformance for three-phase AC management of the contactor fuse, 600V Standard fault Operating temperature	otor	at 480V at 600V 200/208V 220/230V 575/600V AC current Short circuit current Fuse rating Fuse class min max min	A HP HP HP A kA A °C °C	99 30 40 100 160 5 500 RK5 -50 70

ENERGY AND AUTOMATION

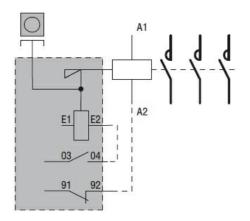
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Pollution degree 3

Dimensions



Wiring diagrams



Certifications and compliance

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

TIM classification



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ENERGY AND AUTOMATION

ETIM 8.0

EC000066 -Power contactor, AC switching