



Product type designation State	Product designation			Power contactor
Number of poles N: 3 Rated insulation voltage Ui IEC/EN V 1000 Rated insulation voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 250 Operational current Ie AC-1 (≤40°C) A 250 AC-1 (55°C) A 235 AC-1 (55°C) A 235 AC-3 (5400°S) A 190 AC-3 (5400°S*C) A 190 AC-3 (5400°C) A 150 A 250 AC-1 (55°C) A 190 AC-3 (5400°C) A 190 AC-3 (5400°C) A 150 A 250 AC-4 (4000°C) A 150 A 20 A 20 A 400°C A 50 A 400°C A 50°C A 400°C A 400°C A 40°C A 40°C A 40°C A 40°C A 40°C <t< td=""><td>, , , , , , , , , , , , , , , , , , ,</td><td></td><td></td><td>B145</td></t<>	, , , , , , , , , , , , , , , , , , ,			B145
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 250 Operational current Ie AC-1 (≤40°C) A 250 AC-1 (≤55°C) A 235 AC-1 (≤70°C) A 190 AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-3 (T≤55°C) 230V kW 46 400V kW 80 415V kW 83 500V kW 100 690V kW 100 690V kW 120 100V kW 91 40V kW 100 40V kW 100 690V kW 100 100V kW 100 100V kW 100 100V kW 100 100V 100V 100V 100V 100V 100V 100V 100V 100V 100				
Rated impulse withstand voltage Uimp	·			
Operational frequency min max but may be a few thermal current lith Hz and the proper state of t				
Min			KV	8
EC Conventional free air thermal current Ith	Operational frequency			0.5
EC Conventional free air thermal current lth				
AC-1 (≤40°C)	IEC Conventional free air thermal aurrent Ith	IIIax		
AC-1 (≤40°C)			A	250
AC-1 (≤55°C)	Operational current le	AC 1 (<10°C)	۸	250
AC-1 (≤70°C) A 190 AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-3 (T≤55°C) 230V kW 46 440V kW 80 4115V kW 88 440V kW 93 500V kW 100 690V kW 120 1000V kW 75 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A - 330V A - 460V A - 1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		•		
AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-3 (T≤55°C) 230V kW 46 400V kW 80 415V kW 88 4416V kW 93 500V kW 100 690V kW 120 1000V kW 75 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 220V A 130 330V A - 460V A - 150 220V A 130 330V A - 460V A - 250V A 130 330V A - 460V A - 270V A 150 270V A				
AC-4 (400V) A 57		` ,		
Rated operational power AC-3 (T≤55°C) 230V kW 46 400V kW 80 415V kW 88 440V kW 93 500V kW 100 690V kW 120 1000V kW 75 Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 150 500V kW 150 690V kW 270 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A - 110V A 150 220V A - 460V A - 110V A 150 220V A - 460V A - 110V A 150 220V A - 460V A - 110V A 150 220V A 130 330V A - 460V A - 110V A 150 220V A 130 330V A - 460V A - 110V A 150 220V A 130 330V A - 460V A - 110V A 150 220V A 130 330V A - 460V A - 210V A - 210V A - 210V A 150 220V A 130 330V A - 460V A - 210V A 150 220V A 130 330V A - 460V A - 210V A 150 220V A 130 330V A - 3460V A -		•		
230V kW 46 440V kW 80 415V kW 88 4440V kW 93 550V kW 100 690V kW 120 1000V kW 75	Rated operational power AC-3 (T<55°C)	AO-4 (400V)		
400V kW 80 415V kW 88 440V kW 93 500V kW 100 690V kW 120 1000V kW 75 Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 196 690V kW 270 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A -	rated operational power 7.0 0 (1=00 0)	230\/	k\//	46
A15V				
A440V KW 93 500V kW 100 690V kW 120 1000V kW 75				
S00V kW 100 690V kW 120 1000V kW 75				
Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 91 4400V kW 150 500V kW 196 690V kW 270 270 110V A 110 220V A - 460V A - 120 110V A 150 1				
Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 196 690V kW 270				
Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 196 690V kW 270 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series				
230V kW 91 400V kW 150 500V kW 196 690V kW 270 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - 5 110V A 150 220V A 130 230V A - 460V A - 5 220V A 130 230V A - 460V A - 5 220V A 130 230V A - 460V A - 60V A 150 250V A 150 250V A 150V A 150 250V A 150V A 15	Rated operational power AC-1 (T≤40°C)			-
A00V kW 150 500V kW 196 690V kW 270		230V	kW	91
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		500V	kW	
T5V		690V	kW	270
	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
		75V	Α	220
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		110V	Α	110
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A 130 330V A - 460V A - 460V A - 120V A 150 120V A 150V		220V	Α	_
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series		330V	Α	_
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	Α	
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
			Α	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Α	
				130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150				_
75V A 220 110V A 150		460V	Α	
110V A 150	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
220V A 150				
		220V	Α	150



	330V	Α	130
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	220
	110V	Α	150
	220V	Α	150
	330V	Α	150
	460V	Α	130
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	160
	110V	Α	80
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	160
	110V	Α	120
	220V	Α	90
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	160
	110V	Α	140
	220V	Α	120
	330V	Α	90
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	160
	110V	Α	140
	220V	Α	140
	330V	Α	140
	460V	Α	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1300
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1500
	500V	Α	1400
	690V	Α	1200
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	14.5
	AC-3	W	6.8
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	Ibin	0.74
	nultaneously connectable		Nr.	2
Conductor section				
ı	AWG/Kcmil			
		max		4/0
	on according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5390
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1100000
Safety related data	E 4 EV/20 40/25 1			
Performance level B10d	according to EN/ISO 13489-1			4400000
		rated load	cycles	1100000
N. 41		mechanical load	cycles	10000000
Mirror contats according	to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/6	60Hz, 60Hz	_		
		min	V	380
		max	V	415
AC operating voltage				
(of 50/60Hz coil powered at 50Hz			
	pick-up			
		min		
		min	%Us	80
		max	%Us %Us	80 110
	drop-out	max	%Us	110
	drop-out	max min	%Us %Us	110 20
		max	%Us	110
ī	of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
7		max min max	%Us %Us %Us	110 20 60
-	of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
·	of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
•	of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
-	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
_	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
_	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
_	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
_	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
_	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
_	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60 80 110
_	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max min max	%Us	110 20 60 80 110 20 60 80 110 20
-	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60 80 110
AC average coil consum	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max min max min max	%Us	110 20 60 80 110 20 60 80 110 20
AC average coil consum	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max min max min max	%Us	110 20 60 80 110 20 60 80 110 20 60
AC average coil consum	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max min max min max	%Us	110 20 60 80 110 20 60 80 110 20



			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	1e				
20 10100 0011101 101109	, •		min	V	380
			max	V	415
DC aparating valtage			max	V	413
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
- '			in-rush	W	300
			holding	W	10
Max cycles frequency			notaling		· U
Mechanical operation				cycles/h	2400
				cycles/11	∠ ₩00
Operating times	tI				
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
		, 0	min	ms	25
			max	ms	60
	in DC				
	111 00	Closing NO			
		Olosing NO	min	ms	60
		0	max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
UL technical data					
Rated operational volta				V	600
Full-load current (FLA)	for three-phase AC m	notor			
			at 480V	Α	124
			at 600V	Α	125
Yielded mechanical pe	rformance				
	for three-phase AC r	motor			
	ioi unice-pilase AC I	HOLOI	200/208V	HP	50
				nr HP	
Conoral LICE			220/230V	חד	50
General USE					
	Contactor			_	
			AC current	Α	250
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	A	500
			Fuse class	- •	RK5
Ambient conditions			. 400 01400		
Temperature					



Operating temperature

	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
		m	3000

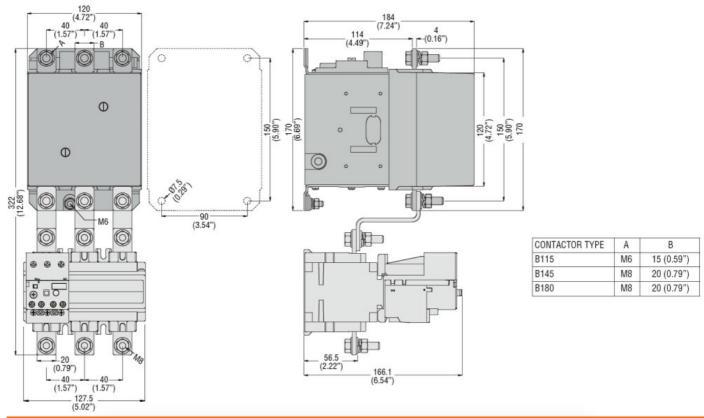
Resistance & Protection

Pollution degree

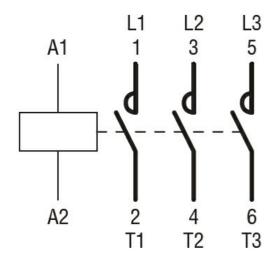
3

Dimensions

Max altitude



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



11B14500380

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 380...415VAC/DC

	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching