



Product designation Product type designation			Power contactor B310
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		А	450
Operational current le			
	AC-1 (≤40°C)	А	450
	AC-1 (≤55°C)	А	370
	AC-1 (≤70°C)	A	300
	AC-3 (≤440V ≤55°C)	A	320
	AC-4 (400V)	A	150
Rated operational power AC-3 (T≤55°C)			
	230V	kW	100
	400V	kW	170
	415V	kW	188
	440V	kW	200
	500V 690V	kW kW	213 256
	1000V	kW	180
Rated operational power AC-1 (T≤40°C)	1000 v	K V V	100
	230V	kW	158
	400V	kW	270
	400V 500V	kW	350
	690V	kW	488
IEC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series			
· · · · · · · · · · · · · · · · · ·	75V	А	375
	110V	A	195
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	А	375
	110V	А	350
	220V	А	300
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	375
	110V	А	350
	220V	А	350



**11B3100024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 24VAC/DC

	330V	Α	300
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	375
	110V	A	350
	220V	A	350
	330V	A	350
	460V	A	300
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series		_	
	75V	A	310
	110V	А	170
	220V	A	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	75V	А	310
	110V	A	290
	220V	A	230
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	А	310
	110V	Α	310
	220V	Α	290
	330V	А	230
	460V	А	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	75V	А	310
	110V	A	310
	220V	A	310
	330V		
		A	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)		A	2900
Protection fuse			
	gG (IEC)	Α	500
	aM (IEC)	Α	400
Making capacity (RMS value)		А	3150
Breaking capacity at voltage			
	440V	А	3000
	500V	A	2700
	690V	A	2520
Resistance per pole (average value)	030 v	 mΩ	0.2
		11152	0.2
Power dissipation per pole (average value)	1.1	147	40 5
	lth	W	40.5
	AC-3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
		Nm	1
	max	INIT	I

11B3100024



## 11B3100024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE C/DC

	-	-	-	-	
(AC3) = 320A,	AC/D	С	С	OIL,	
	24\	1 A	١C	)/DC	

Max number of wires simultaneously connectable       Nr.       2         Conductor section       max       2x 3/0         Power terminal protection according to IEC/EN 60529       IP00         Mechanical features       IP00         Operating position       normal allowable       ±30°         Fixing       Screw         Weight       g       9690         Conductor section       max       2x 3/0         Operations       max       2x 3/0         Question       g       9690         Conductor section       max       2x 3/0         Operations       g       900000         Safety related data       g       700000         Performance level B10d according to EN/ISO 13489-1       rated load       cycles       700000			min	Ibin	0.74	
Conductor section         AWG/Kcmil         max         2x 3/0           Power terminal protection according to IEC/EN 60529         IP00         IP00           Adechanical features         perating position         normal allowable         ±30°           Poperating position         g         Screw         Screw           Neight         g         9660         Conductor section           AWG/Kcmil conductor section         max         2x 3/0           Destation         max         2x 3/0           Destation         g         9660           Conductor section         max         2x 3/0           Destation         max         2x 3/0           Destations         cycles         1000000           Electrical life         cycles         1000000           Electrical life         cycles         1000000           Electrical life         cycles         1000000           Micro contats according to EC/EN 609474-4-1         yes         1000000           Micro contats according to EC/EN 609474-4-1         yes         1000000           Micro contats according to EC/EN 609474-4-1         yes         1000000           Moderating voltage         of 50/60Hz coil powered at 50Hz         ves         100 <td></td> <td></td> <td>max</td> <td>Ibin</td> <td>0.74</td>			max	Ibin	0.74	
NVG/Kcmil         nax         2x 3/0           Power terminal protection according to IEC/EN 60529         Vertical plan           Sorew           Operating position         Vertical plan           allowable         Vertical plan           allowable         Vertical plan           Neight         g         96900           Conductor section         max         Vertical plan           AWG/Kcmil conductor section         max         Vertical plan           Operations         Serew           Mediantical colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"           Performance level B10d according to EL/EN 609474-41         yes           Vertical AC voltage at 50/60Hz         V         24           AC operating voltage         of 50/60Hz coil powered at 50Hz         yes           Vertical powered at 60Hz         yick-up         min         %Us         60           Of 50/60Hz coil powered at 60Hz <th col<="" td=""><td></td><td>imultaneously connectable</td><td></td><td>Nr.</td><td>2</td></th>	<td></td> <td>imultaneously connectable</td> <td></td> <td>Nr.</td> <td>2</td>		imultaneously connectable		Nr.	2
max         2x 3/0           Prover terminal protection according to IEC/EN 60529         IP00           Advectantical features         IP00           Sperating position         normal         Vertical plan           allowable         ±30°         Screw           Weight         g         9690           Conductor section         MG/kcmil conductor section         max         2x 3/0           Operations         g         9690           Weight         cycles         10000000           Celectrical life         cycles         700000           Bechanical load         cycles         700000           Bechanical load         cycles         700000           Statey related data         yes         700000           Micro contats according to EN/ISO 13489-1         rated load         cycles         700000           Micro contats according to IEC/EN 609474-4-1         yes         960         100000000           Micro contats according to IEC/EN 609474-4-1         yes         960         10000000           Micro contats according to IEC/EN 609474-4-1         yes         100         100           Vool 0perating         of 50/60Hz         V         24         20           AC operating	Conductor section					
Power terminal protection according to IEC/EN 60529 IPO0 Vechanical features Operating position Pertaing position Normal Vertical plan allowable 200 Vertical plan allowable 20 Vertical plan vertical plan allowable 200 Vertical plan vertical vertical vertical plan vertical plan vertical plan vertical plan vertical vertical vertical vertical vertical plan vertical		AWG/Kcmil			0.00	
Machanical features Operating position normal allowable *30° Netrical plan *30° *30° Netrical plan *30° * * * * * * * * * * * * * * * * * * *			max			
Ample allowable         Vertical plan allowable         Vertical plan allowable           Fixing         Screw           Weight         9           Conductor section         max           AWG/kcmil conductor section         max           Operations         2X 3/0           Electrical life         cycles           Electrical life         cycles           Electrical life         cycles           Electrical life         cycles           Torre contats according to EN/ISO 13489-1         rated load           rated load         cycles         700000           Miror contats according to IEC/EN 609474-4-1         yes           MC compatibility         yes           AC coll operating         yes           AC coll operating to IEC/EN 609474-4-1         yes           MC compatibility         yes           AC coll operating to IEC/EN 609474-4-1         yes           AC coll operating voltage         of 50/60Hz coil powered at 50Hz         yes           Good of Soles         V         24           AC coll operating voltage         forp-out         min           drop-out         min         %Us         80           drop-out         min         %Us         60<		tion according to IEC/EN 60529			IP00	
normal allowable         Vertical plan ±30"           Fixing         Sorew           Weight         g           AWG/kcmil conductor section         max         2x 3/0           Operations         cycles         1000000           Bechanical life         cycles         700000           Safety related data         cycles         700000           Performance level B10d according to EIV/ISO 13489-1         rated load         cycles         700000           Micro contats according to EIV/ISO 13489-1         rated load         cycles         700000           Micro contats according to EIC/EN 609474-4-1         yes         700000           Mach Coll operating         yes         700000           AC coll operating voltage         vertical plan         yes           AC coll operating voltage         of 50/60Hz coil powered at 50Hz         yes           pick-up         min         %Us         80           max         %Us         110         70000           drop-out         min         %Us         80           of 50/60Hz coil powered at 60Hz         pick-up         min         %Us         80           of 60Hz coil powered at 60Hz         min         %Us         80         70 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>						
allowable         ±30°           Fixing         Screw           Weight         g         9690           Conductor section         max         2x 3/0           AWG/kcmil conductor section         max         2x 3/0           Operations         cycles         10000000           Electrical life         cycles         700000           Safety related data         cycles         700000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         70000         700000         10000000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         70000         70000         70000         70000         70000         70000         70000         70000         70000         7	Operating position		normal		Vertical plan	
Exing         Screw           Weight         g         9690           Conductor section         max         2x 3/0           Operations         max         2x 3/0           Mechanical life         cycles         10000000           Electrical life         cycles         700000           Safety related data         rated load         cycles         700000           Mirror contats according to EN/ISO 13489-1         rated load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           VC coll operating         yes         700000         10000000         10000000           Rated AC voltage at 50/60Hz         V         24         24           AC operating voltage         of 50/60Hz coil powered at 50Hz         yes         300           AC operating voltage         of 50/60Hz coil powered at 60Hz         min         %Us         80           pick-up         min         %Us         80         max         %Us         60           of 50/60Hz coil powered at 60Hz         min         %Us         20         max         %Us         60           of 60Hz coil powered at 60Hz         pick-up         min <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>						
g         9690           Conductor section         max         2x 3/0           Operations         max         2x 3/0           Mechanical life         cycles         1000000           Electrical life         cycles         1000000           Electrical life         cycles         70000           Safety related data         rated load         cycles         70000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         40000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         4000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         4000000         110000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         4000000         11000000         11000000         11000000         1100         1100         max         %US         60	Fixing		allowabic			
AWG/kcmil conductor section         max         2x 3/0           Operations         volume         10000000           Electrical life         cycles         1000000           Safety related data         rated load         cycles         700000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         700000           Wirror contats according to IEC/EN 609474-4-1         yes         00000000         10000000           Wirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           Wirror contats according to IEC/EN 609474-4-1         yes         700000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         10000000         10	-			a		
AWG/kcmil conductor section           max         2 × 3/0           Qpetations         velow         1000000           Mechanical life         cycles         700000           Safety related data         velow         velow         velow         700000           mechanical load         cycles         700000           Min for contats according to EC/EN 609474-4-1         yes           Coll operating         velow         velow           AC coll operating         velow         velow           AC coll operating         velow         velow           AC coll operating         velow         velow         velow <th< td=""><td></td><td></td><td></td><td>9</td><td></td></th<>				9		
max         2x 3/0           Operations         cycles         1000000           Electrical life         cycles         700000           Safety related data         v         v           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         700000         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         1000000         1000000           Mirror contats according to IEC/EN 609474-4-1         yes         1000000         1000000           Mirror contats according to IEC/EN 609474-4-1         yes         1000000         1000000           Mirror contats according to IEC/EN 609474-4-1         yes         1000000         1000000           AC coll operating         0150/60Hz         yes         24         24           AC operating voltage at 50/60Hz         v         24         24         20           drop-out         min         %US         80         10           drop-out         min         %US         60         60           of 50/60Hz coil powered at 60Hz         max         %US         10           pick-up         min         %US         1		AWG/kcmil conductor section				
Operations         vc/cles         1000000           Electrical life         cycles         700000           Safety related data         rated load         cycles         700000           Mechanical load         cycles         700000         mechanical load         cycles         700000           Mechanical load         cycles         700000         mechanical load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         Yes         Yes           AC coil operating         wes         yes         Yes         Yes         Yes           AC coll operating to IEC/EN 609474-4-1         yes         Yes         Yes         Yes         Yes           AC coll operating         Good operating         Yes         Yes         Yes         Yes           AC operating voltage         of 50/60Hz coil powered at 50Hz         Y         24         Yes         Yes           AC operating voltage         of 50/60Hz coil powered at 60Hz         yeik-up         min         %Us         80           max         %Us         110         max         %Us         60         60           of 60Hz coil powered at 60Hz         pick-up         min         %Us			max		2x 3/0	
Mechanical life         cycles         1000000           Safety related data         cycles         700000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         700000           Mirror contats according to IEC/EN 609474-4-1         yes         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes         yes           AC coll operating         v         24           AC operating voltage         of 50/60Hz coil powered at 50Hz         v         24           AC operating voltage         of 50/60Hz coil powered at 50Hz         max         %Us         80           max         %Us         80         max         %Us         60           of 50/60Hz coil powered at 60Hz         max         %Us         10           pick-up         min         %Us         80           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil	Operations					
Electrical life cycles 700000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 700000 mechanical load cycles 700000 vers  EMC compatibility yes CAC coll operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 60Hz pick-up of 60Hz coil powered at 60Hz pick-up of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 min %Us 20 max %Us 110 min %Us 20 max %Us 110 min %Us 80 max %Us 110 min %Us 20 max %Us 110 min %Us 20 max %Us 110 min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 max %Us 110 min %Us 20 max %Us 110 min %Us 20 max %Us 60 max %Us 110 min %Us 20 max %Us 60 max %Us 110 min %Us 20 max %Us 60 max %Us 110 min %Us 20 max %Us 60 max %Us 110 min %Us 20 max %Us 60	Mechanical life			cycles	10000000	
Safety related data         rated load         cycles         700000           Mirror contats according to EV/ISO 13489-1         rated load         cycles         10000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         24           AC coil operating         v         24           AC coil operating voltage at 50/60Hz         V         24           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80           min         %Us         20         max         %Us         60           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           min         %Us         80         max         %Us         10           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         10         10           drop-out         min         %Us         80         max         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         80         max         %Us         10           drop-out         min         %Us         80         max         %Us         10           drop-out         min         %Us         10         max<	Electrical life					
Performance level B10d according to EN/ISO 13489-1  rated load cycles 700000 mechanical load cycles 1000000  Virror contats according to IEC/EN 609474-4-1  EMC compatibility yes  EMC compatibility yes  AC coll operating  of 50/60Hz coil powered at 50Hz pick-up  min %Us 80 max %Us 60  of 50/60Hz coil powered at 60Hz pick-up  min %Us 80 max %Us 60  of 50/60Hz coil powered at 60Hz pick-up  min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60  of 60Hz max %Us 60 max %Us 6	Safety related data			-		
mechanical load         cycles         1000000           Mirror contats according to IEC/EN 609474-4-1         yes           EMC compatibility         yes           AC coil operating         v         24           AC operating voltage at 50/60Hz         V         24           AC operating voltage of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80           max         %Us         110         100         100           drop-out         min         %Us         20         60           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           drop-out         min         %Us         80           drop-out         min         %Us         80           of 60Hz coil powered at 60Hz pick-up         max         %Us         80           of 60Hz coil powered at 60Hz         max         %Us         80           of 60Hz coil powered at 60Hz         max         %Us         80           of 60Hz coil powered at 60Hz         max         %Us         60		0d according to EN/ISO 13489-1				
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coll operating Rated AC voltage at 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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 10 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 of 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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up Min %Us 80 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300			rated load	cycles	700000	
EMC compatibility         yes           AC coil operating         V         24           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80 max           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         110           drop-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 50/60Hz coil powered at 60Hz pick-up         min         %Us         20 max         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         20 max         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         80 max         %Us         110           drop-out         min         %Us         80 max         %Us         110           drop-out         min         %Us         20 max         %Us         60           AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz         min-rush         VA         300			mechanical load	cycles	1000000	
AC coil operating         V         24           Rated AC voltage at 50/60Hz         v         24           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80 max            min         %Us         110         10            drop-out         min         %Us         60           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80 max            of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80 max            drop-out         min         %Us         20 max            min         %Us         20 max         %Us         110            drop-out         min         %Us         20 max         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         60         60         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         80 max         %Us         110           drop-out         min         %Us         80         max         %Us         60           AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz         min-rush         VA		ng to IEC/EN 609474-4-1			yes	
Rated AC voltage at 50/60Hz         V         24           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80           min         %Us         110         min         %Us         100           drop-out         min         %Us         60         60           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           drop-out         min         %Us         80           of 60Hz coil powered at 60Hz pick-up         min         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         110           drop-out         min         %Us         80           max         %Us         110         10           drop-out         min         %Us         60           AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz         in-rush<	EMC compatibility				yes	
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 min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 10 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300						
of 50/60Hz coil powered at 50Hz pick-up drop-out min %Us 80 max %Us 110 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 min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 Max %Us 60 max %Us		D/60Hz		V	24	
pick-up         min         %Us         80           max         %Us         110           drop-out         min         %Us         20           max         %Us         60           of 50/60Hz coil powered at 60Hz         min         %Us         80           pick-up         min         %Us         80           drop-out         min         %Us         80           drop-out         min         %Us         20           drop-out         min         %Us         60           of 60Hz coil powered at 60Hz         min         %Us         60           of 60Hz coil powered at 60Hz         min         %Us         60           of 60Hz coil powered at 60Hz         min         %Us         80           pick-up         min         %Us         80           max         %Us         110         10           drop-out         min         %Us         80           max         %Us         60         10	AC operating voltage					
min         %Us         80           max         %Us         110           drop-out         min         %Us         20           min         %Us         60           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         80           max         %Us         80         max         %Us         80           drop-out         min         %Us         80         max         %Us         110           drop-out         min         %Us         20         max         %Us         60           of 60Hz coil powered at 60Hz         min         %Us         60         60         60           of 60Hz coil powered at 60Hz         min         %Us         80         max         %Us         10           drop-out         min         %Us         80         max         %Us         10           drop-out         min         %Us         80         max         %Us         10           drop-out         min         %Us         60         max         %Us         60						
drop-out         max         %Us         110           min         %Us         20           max         %Us         60           of 50/60Hz coil powered at 60Hz         with         80           pick-up         min         %Us         80           drop-out         max         %Us         110           drop-out         min         %Us         20           of 60Hz coil powered at 60Hz         with         60           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil powered at 60Hz         max         %Us         60           of 60Hz coil powered at 60Hz         max         %Us         80           max         %Us         110         10           drop-out         max         %Us         60		ріск-ир	min	0/110	90	
drop-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 min %Us 80 max %Us 60 to f 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 X S S S S S S S S S S S S S S S S S S S						
min%Us20 maxof 50/60Hz coil powered at 60Hz pick-upmin%Us80 maxmin%Us810 max110drop-outmin%Us20 max60of 60Hz coil powered at 60Hz pick-upmin%Us60of 60Hz coil powered at 60Hz pick-upmin%Us80 maxmin%Us80 max110drop-outmin%Us80 maxmin%Us80 max110drop-outmin%Us80 maxMax%Us11060AC average coil consumption at 20°C of 50/60Hz coil powered at 50HzKKin-rushVA300		drop-out	Шах	/005	110	
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         min         %Us         60           of 60Hz coil powered at 60Hz pick-up         min         %Us         80           max         %Us         110         10           drop-out         min         %Us         80           max         %Us         110         10           drop-out         min         %Us         60			min	%Us	20	
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 min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz						
pick-up         min         %Us         80           max         %Us         110           drop-out         min         %Us         20           max         %Us         60           of 60Hz coil powered at 60Hz         60           pick-up         min         %Us         80           max         %Us         80           max         %Us         110           drop-out         min         %Us         80           max         %Us         110         10           drop-out         min         %Us         20           max         %Us         60         10           AC average coil consumption at 20°C         max         %Us         60           AC average coil consumption at 20°C         in-rush         VA         300		of 50/60Hz coil powered at 60Hz	max			
min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 100 Max %Us 60 min %Us 20 max %Us 60 max %Us 60 min %Us 20 max %Us 60 max %Us 60 max %Us 300						
drop-out         max         %Us         110           min         %Us         20           max         %Us         60           of 60Hz coil powered at 60Hz         rest         80           pick-up         min         %Us         80           max         %Us         110         110           drop-out         min         %Us         80           max         %Us         110         110           drop-out         min         %Us         20           Max         %Us         60         10           AC average coil consumption at 20°C         max         %Us         60           AC average coil consumption at 20°C         in-rush         VA         300			min	%Us	80	
drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-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						
max       %Us       60         of 60Hz coil powered at 60Hz       jick-up       min       %Us       80         min       %Us       110       10         drop-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		drop-out				
of 60Hz coil powered at 60Hz pick-up drop-out Min %Us 80 max %Us 110 min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300			min	%Us	20	
pick-up min %Us 80 max %Us 110 drop-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			max	%Us	60	
min %Us 80 max %Us 110 drop-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		of 60Hz coil powered at 60Hz				
max %Us 110 drop-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		pick-up				
drop-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						
min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300			max	%Us	110	
max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300		drop-out	<u>.</u>	0/11		
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300						
of 50/60Hz coil powered at 50Hz in-rush VA 300			max	%Us	60	
in-rush VA 300	AC average coil consu					
		or 50/60Hz coll powered at 50Hz		174	200	
holding VA 10						
			noiaing	VA	10	



	( 50/0011 - 1				
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz		<u> </u>	W	10
DC coil operating	-20 0 00112				10
					0.4
DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	dran out		Ших	/000	110
	drop-out			0/11	~~
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
				W	
			holding	VV	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
	in AC				
	III AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
		- T - 5 -	min	ms	30
			max	ms	75
			IIIdx	1115	15
	in DC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
		Opening NO	min	-	20
			min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA)	) for three-phase AC n	notor			
· · · ·			at 480V	А	301
			at 600V	A	289
Violdod mechaniael -	rformonoo		ai 000 V	Л	200
Yielded mechanical pe					
	for three-phase AC	motor			
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	
0			0/000/070		300
General USE					
	Contactor				
			AC current	А	450
Short-circuit protection	n fuse 600V				
	Standard fault				
	Stanuaru lault				10
			Short circuit current	kA	18
			Fuse rating	А	800
			Fuse class		L
Ambient conditions					
o or relief of the					

Temperature

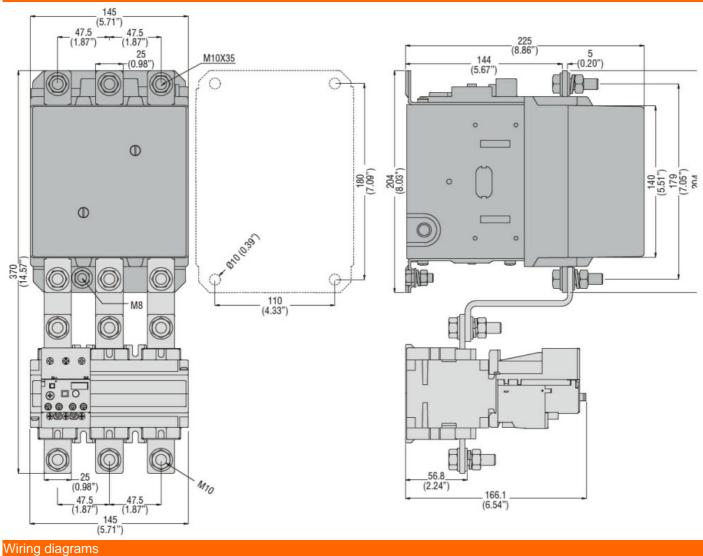
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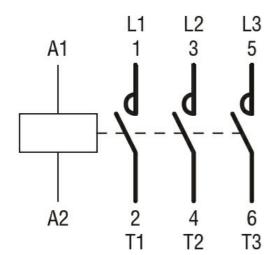
**11B3100024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 24VAC/DC

Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

## Dimensions







## 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
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching