11B1454L00220220



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VAC



Today type designation Dirive Number of poles Nr. 4 Rated insulation voltage UI IEC/EN V 1000 Rated insulation voltage UI IEC/EN V 8 Operational frequency min H2 25 max H2 400 1000 IEC Conventional free air thermal current Ith A 250 Operational current le AC-1 (s40°C) A 250 AC-1 (s55°C) A 190 AC-3 (s440V s55°C) A 150 AC-3 (s440V s55°C) A 150 AC-4 (4000) A 67 Rated operational power AC-1 (T≤40°C) 230V KW 91 400V kW 150 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 150 220V KW 91 460V A - 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 <td< th=""><th>Product designation Product type designation</th><th></th><th></th><th>Power contactor B145</th></td<>	Product designation Product type designation			Power contactor B145
Number of polesNr.4Rated insulation voltage Ui IEC/ENV1000Rated insulation voltage UimpK/V8Operational frequencyminHz25maxHz400400IEC Conventional free air thermal current IthA250Operational current IeAC-1 (≤40°C)A250AC-1 (≤5°C)A235AC-1 (≤5°C)A235AC-1 (≤5°C)A150AC-3 (≤40V)A57Rated operational power AC-1 (T≤40°C)230VkW91400VkW150AC-3 (≤40V)A57500VkW91400VkW150BOUVkW196690VkW270100100100IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA220110VA110220VA-330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220110VA150220VA130330VA-460VA-160220VA150220VA150220VA150220VA150220VA150220VA150330VA-460VA-160220VA150220VA150220VA150220VA150220V <td></td> <td></td> <td></td> <td>B145</td>				B145
Rated insulation voltage Ui IEC/ENV1000Rated inpulse withstand voltage UimpkV8Operational frequencyminHz25maxHz4004IEC Conventional free air thermal current IthA250Operational current IeAC-1 (≤40°C)A250AC-1 (≤5°C)A235AC-1 (≤70°C)A190AC-3 (≤440V ≤55°C)A150AC-3 (≤440V ≤55°C)A150AC-4 (400V)A57A250AC-3 (≤440V ≤55°C)A57Rated operational power AC-1 (T≤40°C)230VKW91400VkW150500VkW91400VkW196690VkW270IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA220110VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220110VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150230VA150230VA150330VA130460VA-IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series75VA220110VA150220VA150220VA150220VA150220VA150 <t< td=""><td></td><td></td><td>Nr.</td><td>4</td></t<>			Nr.	4
Rated impulse withstand voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional free air thermal current lthA250Operational current leAC-1 (s40°C)A250AC-1 (s55°C)A235AC-1 (s56°C)A190AC-3 (s440V s55°C)A150AC-4 (400V)A57Rated operational power AC-1 (T≤40°C)230VkW9191400VkW150500VkW196690VkW270110VA110220VkW196690VkW270IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA220110VA110220VA-330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220110VA150220VA130330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150230VA-330VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150230VA150330VA-1EC max current le in DC1 with L/R ≤ 1ms with 4 poles i				
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 250 Operational current le AC-1 (\$40°C) A 250 AC-1 (\$55°C) A 235 AC-1 (\$55°C) A 235 AC-1 (\$55°C) A 235 AC-1 (\$70°C) A 150 AC-3 (\$4400 \$55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-1 (T≤40°C) 230V kW 150 500V kW 150 S00V kW 150 500V kW 150 500V kW 150 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 150 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A 150 330V A - 460V A - IEC max current le in DC1 with L/R			kV	8
max Hz 400 IEC Conventional free air thermal current Ith A 250 Operational current le AC-1 (≤40°C) A 250 AC-1 (≤50°C) A 250 AC-1 (≤50°C) A 190 AC-1 (≤570°C) A 190 AC-3 (≤440V ≤55°C) A 150 AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 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 - 330V 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 - 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V				
IEC Conventional free air thermal current IthA250Operational current leAC-1 (≤40°C)A250AC-1 (≤55°C)A235AC-1 (≤70°C)A190AC-3 (≤440V ≤55°C)A150AC-4 (400V)A57Rated operational power AC-1 (T≤40°C)230VkW91400VkW150S00VkW150500VkW196690VkW270IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA220110VA110220VA-330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220110VA150220VA130330VA-460VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150220VA150330VA-460VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150330VA130330VA130330VA150IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series75VA220110VA150220VA150330VA130330VA15		min	Hz	25
Operational current le 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-1 (T≤40°C) 230V kW 91 400V 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 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 150 330V A		max	Hz	400
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC Conventional free air thermal current Ith		Α	250
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Operational current le			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		· · · · · · · · · · · · · · · · · · ·		
AC-3 (s440V ≤55°C) A 150 Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 150 690V kW 150 690V kW 196 690V kW 220 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 - - 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 150 220V A 150 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V		. ,		
AC-4 (400V) A 57 Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 196 690V kW 270 270 100V kW 196 110V A 110 220V A - 330V A - 110V A 110 220V A - 330V A - 110V A 110 220V A - 330V A - 110V A 110 220V A - - 330V A - 110V A 150 220V A - - - 110V A 150 220V A - <td></td> <td></td> <td></td> <td></td>				
Rated operational power AC-1 (T≤40°C)230VkW91400VkW150500VkW196690VkW270IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA220VA-330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220VA150220VA130330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220VA150220VA150220VA150220VA150220VA150220VA150220VA150220VA150330VA150		· · · · · · · · · · · · · · · · · · ·		
$\begin{array}{c} 230 \lor k \Downarrow 91 \\ 400 \lor k \Downarrow 150 \\ 500 \lor k \Downarrow 196 \\ 690 \lor k \Downarrow 270 \\ \hline \\ $		AC-4 (400V)	A	57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
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 - 330V A - 460V A - 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A - 200V A 130 330V A - 460V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 230V A 150 220V A 150 330V A 130 460V A - - 16C 100V A 150 220V A 150 330V A 130 460V - </td <td></td> <td></td> <td></td> <td></td>				
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $75V$ A220 110V A110 220V A $110V$ A110 220V 				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kVV	270
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				110
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 220V A 130 330V A - 460V 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 150 220V A 150 330V A 130 460V A - - 150 330V A 150 220V A 130 460V A - - 110V A 150 1EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 1EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 330V A 150 330V A 150 330V A 150				_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series75VA220110VA150220VA130330VA-460VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150220VA150330VA130460VA-IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series75VA220110VA150220VA150220VA150220VA150220VA150220VA150330VA150				_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC may current to in DC1 with $L/R < 1$ ms with 2 polos in series	400 V	A	-
$\begin{tabular}{ c c c c c } & 110V & A & 150 \\ & 220V & A & 130 \\ & 330V & A & - \\ & 460V & A & - \\ \hline \end{tabular}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{tabular}{ c c } & 75V & A & 220 \\ & 110V & A & 150 \\ & 220V & A & 150 \\ & 330V & A & 130 \\ & 460V & A & - \\ \hline \end{tabular}$ IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series $\begin{tabular}{ c } & 75V & A & 220 \\ & 110V & A & 150 \\ & 330V & A & 130 \\ & 460V & A & - \\ \hline \end{tabular}$ IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series $\begin{tabular}{ c } & 75V & A & 220 \\ & 110V & A & 150 \\ & 220V & A & 150 \\ & 220V & A & 150 \\ & 330V & A & 150 \\ \hline \end{tabular}$	TEC max current le in DCT with L/R 2 mis with 2 poles in series	75\/	۸	220
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			_	
$\begin{array}{c c c c c c c } & 460 & A & - \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} & & & & & & & & & & & & & & & & & & &$				-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series75VA220110VA150220VA150330VA130460VA-IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series75VA220110VA150220VA150220VA150330VA150				_
$\begin{array}{ccccc} 75 & A & 220 \\ 110 & A & 150 \\ 220 & A & 150 \\ 330 & A & 130 \\ 460 & A & - \end{array}$	IEC max current le in DC1 with $L/R \leq 1$ ms with 3 poles in series	1001		
$ \begin{array}{cccc} 110 V & A & 150 \\ 220 V & A & 150 \\ 330 V & A & 130 \\ 460 V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 4 poles in series} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 4 poles in series} \\ \hline \mbox{75V} & A & 220 \\ 110 V & A & 150 \\ 220 V & A & 150 \\ 330 V & A & 150 \\ \hline \mbox{330V} & A & 150 \\ \hline \end{array} $		75V	А	220
$\begin{array}{ccccc} 220 & A & 150 \\ 330 & A & 130 \\ 460 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 4 poles in series} \\ & & & & & & \\ \hline \mbox{75V} & A & 220 \\ 110 & A & 150 \\ 220 & A & 150 \\ 330 & & & & & \\ \end{array}$				
330V A 130 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 220V A 150 330V A 150 330V A 150				
460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 220V A 150 330V A 150 330V A 150				
75V A 220 110V A 150 220V A 150 330V A 150		460V		
110V A 150 220V A 150 330V A 150	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
220V A 150 330V A 150		75V	А	220
330V A 150		110V	А	150
		220V	А	150
460V A 130			А	
		460V	А	130



11B1454L00220220 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

220...240VAC

IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	160
	110V	А	80
	220V	А	_
	330V	А	_
	460V	А	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	160
	110V	A	120
	220V	A	90
	330V	A	30
	460V	A	_
IFC may autrent to in DC2 DC5 with L/D < 15mg with 2 palagin agrice	400 v	A	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series		•	400
	75V	A	160
	110V	A	140
	220V	A	120
	330V	Α	90
	460V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	Α	160
	110V	Α	140
	220V	А	140
	330V	Α	140
	460V	А	90
Short-time allowable current for 10s (IEC/EN60947-1)		А	1300
Protection fuse			
	gG (IEC)	А	250
	aM (IEC)	A	160
Making capacity (RMS value)	()	A	1500
Breaking capacity at voltage			1000
Dreaking oupdoiry at voltage	440V	А	1500
	500V	A	1400
	690V	A	1200
Desistance per polo (overego veluo)	090 v		
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	lbin	13.3
	max	lbin	13.3
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	max	Nr.	2
Conductor section			£
AWG/Kcmil			
AWG/KCIIII			4/0
	max		4/0 IP00
Power terminal protection according to IEC/EN 60529			



11B1454L00220220 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6980
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1100000
Safety related data			- ,	
	0d according to EN/ISO 13489-1			
	3 1 1 1 1	rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats accordir	ng to IEC/EN 609474-4-1		- ,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				,
Rated AC voltage at 50	0/60Hz. 60Hz			
in the solution		min	V	220
		max	v	240
AC operating voltage		max	•	210
to operating vehage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	plot up	min	%Us	80
		max	%Us	110
	drop-out	Пал	/000	110
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz		,	
	pick-up			
	F 4F	min	%Us	80
		max	%Us	110
	drop-out		,	
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	r r	min	%Us	80
		max	%Us	110
	drop-out		-	
		min	%Us	20
		max	%Us	60
AC average coil consu	Imption at 20°C			
<u>.</u>	of 50/60Hz coil powered at 50Hz			
	· · · · · · · · · · · · · · · · · · ·	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	noiding		
		in-rush	VA	300
		holding	VA	10
Dissipation at holding :	<20°C 50Hz	noiding	W	10
			v v	10

DC rated control voltage

220...240VAC



220

240

V

V

min

max



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ENERGY AND AUTOMATION

			max	v	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	arop out		min	%Us	20
			max	%Us	60
Average coil consump	ntion <20°C		max	/003	00
			in-rush	W	300
			holding	W	10
Max cycles frequency			noiding	VV	10
				ovoloo/b	2400
Mechanical operation				cycles/h	2400
Operating times	a u tu a l				
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)) for three-phase AC	motor			
. ,	·		at 480V	А	124
			at 600V	А	125
Yielded mechanical pe	erformance				
	for three-phase AC	C motor			
	· · · · · · · · · · · · · · · · · · ·		200/208V	HP	50
			220/230V	HP	50
General USE			220,2001		~~
	Contactor				
	Jonation		AC current	А	250
Short-circuit protectior	n fuse 6001/			^	200
Short-circuit protection	Standard fault				
	Stanuard lault		Short oirquit ourrest	L۸	F
			Short circuit current	kA	5
			Fuse rating	А	500 DK5
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating tempera	ature			
			-		

Storage temperature

°C

°C

°C

°C

min

max

min

-50

70

-60

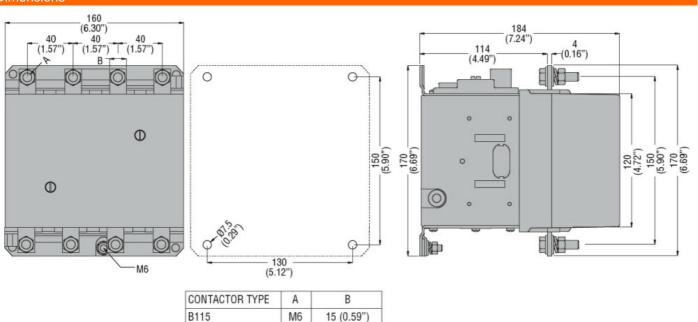
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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VAC

ENERGY AND AUTOMATION

3000 Max altitude m Resistance & Protection Pollution degree 3 Dimensions



20 (0.79")

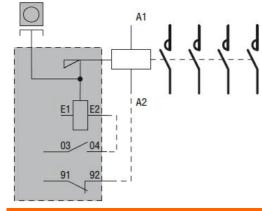
20 (0.79")

M6

M8

M8

A / · ·		
Wurin	a diai	grams
	u ula	JIAIIIS



B115

B145

B180

Certifications and compliance

Compliance

ETIM cla

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
FTIM classification	

11B1454L00220220



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VAC

ETIM 8.0

EC000066 -Power contactor, AC switching