**ENERGY AND AUTOMATION** 

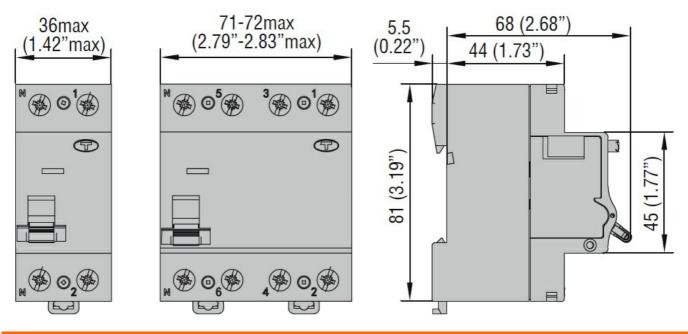
## electric RESIDUAL CURRENT OPERATED CIRCUIT BREAKER, 2 MODULES, 2P - TYPE A, 25A, 30MA



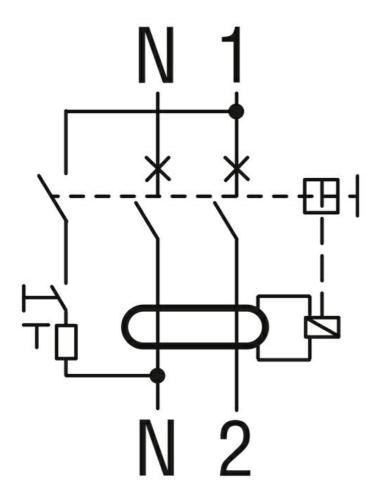
Product designation         Kesidual current circuit breakers (RCCB)           Product type designation         FRIRD           Number of poles         2P           Number of DIN modules         2P           Compliance         TU         20           Electrical features         TU         40           Rated insulation voltage UI IEC/EN         N/C         20           Rated inpulse withstand voltage Lilmp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated requency         RA         2.5           Rated current (In)         A         2.5           Residual operation characteristic         KA         10           Rated residual current         MA         30           Short cricuit rating (IEC)         KA         10           Electrical life         cycles         10000           Ambient conditions         Ra         10           Operating temperature         min         °C         -35           Max altitude         max         °C         -40           Mechanical features         max         °C         -40           Operating position         max         "m         p         2 <th></th> <th></th> <th></th> <th>-</th>				-	
Product tye designation				Residual current	
Product type designation         P1RD           Number of poles         2           Number of DIN modules         2           Compliance         IEC           Electrical features         V         400           Rated insulation voltage Uil IEC/EN         V         400           Rated insulation voltage Uil JEC/EN         VAC         230           Rated operational voltage AC (IEC)         VAC         230           Rated operation characteristic         A         25           Residual operation characteristic         MA         30           Residual operation characteristic         MA         10           Residual operation characteristic         MA         10           Residual current         MA         10           Electrical life         cycles         1000           Ambient conditions         cycles         1000           Storage temperature         min         °C         -35           Max altitude         m         200           Mechanical features         m         200           Operating position         mm         v         v           Fixing         max         lin         15           Feminals tool         max	Product designation				
Number of poles         2P           Number of DIN modules         2           Compliance         1EC           Electrical features         V         400           Rated insulation voltage UitEC/EN         VX         230           Rated operational voltage AC (IEC)         VXC         230           Rated operation characteristic         A         25           Residual operation characteristic         MA         30           Rated residual current         MA         30           Short circuit rating (IEC)         IkA         10           Electrical life         cycles         10000           Ambient conditions         vcc         -35           Storage temperature         min         °C         -35           Storage temperature         min         °C         -40           Max altitude         mon         °C         +80           Max altitude         mon         °C         -40           Fixing         nommal         vcc         +80           Fixing         mon         °C         -40           Fixing         mon         °C         -40           Fixing         mon         °C         -40				,	
Number of DIN modules					
Compliance         IEC           Electrical features         U         400           Rated insulation voltage Ui IEC/EN         V         40           Rated insulation voltage Ulimp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated doperation characteristic	·				
Electrical features         V         400           Rated insulation voltage Uinpp         kV         4           Rated operational voltage PC (IEC)         VAC         230           Rated operational voltage AC (IEC)         VAC         230           Rated operation voltage AC (IEC)         HZ         50/60           Rated current (In)         A         25           Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Short circuit rating (IEC)         kA         10           Short circuit rating (IEC)         kA         10           Ambient conditions           Operating temperature           min         °C         -35           max         °C         +70           Storage temperature           Max altitude         m         2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         normal         Vertical plan           Tightening torque for terminals         max         Nm         2           Torminal tool         max         Nm					
Rated insulation voltage Uir IEC/EN         V         400           Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated operational voltage AC (IEC)         Hz         50/60           Rated frequency         Hz         50/60           Rated current (In)         A         25           Residual operation characteristic         A         10           Rated residual current         MA         10           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Ambient conditions         cycles         10000           Operating temperature         min         °C         -35           Ambient conditions         recommon rate         cycles         -40           Storage temperature         min         °C         -40           Max altitude         mo         200           Mex altitude         mo         200           Mex altitude         mo         200           Meximple         recommon rate         recommon rate           Fixing         recommon rate         recommon rate           Fixing				IEC	
Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated frequency         Hz         50/60           Rated current (In)         A         25           Residual operation characteristic         A         A           Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions           Operating temperature           min         °C         -35           max         °C         +70           Storage temperature           min         °C         -40           max         °C         +80           Max altitude         m         2000           Mechanical features           Operating position           Fixing         s5mm DIN rail           Teminals tool         max         Nm         2           Teminals tool         max         mm         2           Teminals tool         max         mm         35					
Rated operational voltage AC (IEC)         VAC         230           Rated drequency         Hz         50/60           Rated current (In)         A         25           Residual operation characteristic         A         A           Rated current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions           Operating temperature           min °C - 35 max °C +70           Storage temperature           min °C - 40 max °C +80           Max altitude         ma 2000           Mechanical features           Operating position           min ormal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           max max libin 15           Terminals tool         max max libin 15           Conductor section           Min min min min min min max max libin 15           AWG/Kcmil           min					
Rated frequency         Hz         50/60           Rated current (In)         A         25           Residual operation characteristic         —         A           Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions           Operating temperature           min of C of					
Rated current (in)         A         25           Residual operation characteristic         A         A           Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions           Operating temperature           min °C -35 max °C +70           Storage temperature           min °C -40 max °C +80           Max altitude         m         2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         max Nm 2 max lbin 15           Terminals tool         p2 2           Conductor section           IEC         min mm² 2.5 max mm² 35           AWG/Kcmil         min mm² 35           AWG/Kcmil         min max 2.2           Mechanical life         cycles         20000           Weight         g 185           Frontal IP degree         p2         2					
Residual operation characteristic         A           Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions           Operating temperature           min         °C         -35           max         °C         +70           Storage temperature           Max altitude         m         2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         max         Nm         2           Terminals tool         pz 2           Conductor section         IEC         min         mm         2.5           AWG/Kcmil         min         mm         2.5           AWG/Kcmil         min         m         2           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         1P20           Pollution degree         2					
Rated residual current         mA         30           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Ambient conditions         Operating temperature           min         °C         -35 max           max         °C         +70           Storage temperature         min         °C         -40 max           Max altitude         m         2000           Mechanical features         mormal         Vertical plan           Tightening position         s5mm DIN rail           Tightening torque for terminals         max         Nm         2 max           Terminals tool         pz 2           Conductor section         min         mm²         2.5 max           AWG/Kcmil         min         mm²         35           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         p2         192			Α		
Short circuit rating (IEC)         kA cycles         100           Electrical life         cycles         10000           Ambient conditions	·				
Electrical life					
Ambient conditions			kA	10	
Operating temperature         min of C of 35 max of C of 470           Storage temperature         min of C of 440 max of C of 480           Max altitude         m of 2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           Terminals tool         max of Max of Min of State of Min of State of Min of State of Min of M			cycles	10000	
Min max of C   -35 max of C   +70					
Storage temperature           Storage temperature           min         °C         -40           max         °C         +80           Max altitude         m         2000           Mechanical features           Operating position           Informal programment         Nommal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           Imax         Nm         2           Terminals tool         max         Nm         2           Conductor section         IEC         min         mm         2         2           End         min         mm         2         2.5         2           AWG/Kcmil         min         mm         2         2.5         2           Mechanical life         cycle         20000         2           Weight         g         185           Frontal IP degree         IP20         Pollution degree         IP20	Operating temperature				
Storage temperature         min max of colspan="4">°C 400         A40         Max altitude         max 2000         Mechanical features         Vertical plan         Simm DIN rail         Tightening torque for terminals         max Nm 2 35mm DIN rail         Tightening torque for terminals         Tightening torque for terminals         Max Nm 2 2 2 5 max Nm 2 2 2 5 max Nm 2 35         Terminals tool         Pz 2         Conductor section         IEC         min mm² 2 2.5 max nm² 35         AWG/Kcmil         min mm² 2 2.5 max nm² 35         AWG/Kcmil         min min 14 max 2 20000         Weight         cycles 20000         Weight         g 185         Frontal IP degree         IP20         Pollution degree         IP20         Pol		min			
Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           Operating position           Fixing         Tommal         Vertical plan           Tightening torque for terminals           max         Nm         2           max         Nm         2           max         lbin         15           Terminals tool         Pz 2           Conductor section           IEC         min         mm²         2.5           max         mm²         2.5           max         mm²         35           AWG/Kcmil         min         14           max         2         2           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2		max	°C	+70	
Max altitude         max         °C         +80           Mechanical features           Operating position           Fixing         Jest on Jump In	Storage temperature				
Max altitude         m         2000           Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           max         Nm         2           Terminals tool         pz 2           Conductor section         IEC         min         mm²         2.5           AWG/Kcmil         min         mm²         2.5           AWG/Kcmil         min         14           max         2           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         1		min		-40	
Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           max Nm 2 max lbin 15           Terminals tool         Pz 2           Conductor section           IEC         min mm² 2.5         2.5         max mm² 35         AWG/Kcmil         min 14 max 2         2         Mechanical life         cycles 20000         Weight g 185         Frontal IP degree         IP20         Pollution degree <th col<="" td=""><td></td><td>max</td><td>°C</td><td>+80</td></th>	<td></td> <td>max</td> <td>°C</td> <td>+80</td>		max	°C	+80
Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           max         Nm         2           max         lbin         15           Terminals tool         Pz 2           Conductor section         IEC         min         mm²         2.5           Max         mm²         2.5         3.5           AWG/Kcmil         min         14         14           max         z         2         2           Mechanical life         cycles         20000         Weight         g         185         Frontal IP degree         IP20         Pollution degree         IP20         Pollution degree         1	Max altitude		m	2000	
Normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         max         Nm         2           max         lbin         15           Terminals tool         Pz 2           Conductor section         IEC           min         mm²         2.5           max         mm²         35           AWG/Kcmil         min         14           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2	Mechanical features				
Fixing         35mm DIN rail           Tightening torque for terminals           max         Nm         2           max         Ibin         15           Conductor section           IEC         min         mm²         2.5           max         mm²         35           AWG/Kcmil         min         14           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2	Operating position				
Tightening torque for terminals           max max lbin         Nm 2 max lbin         15           Terminals tool         Pz 2           Conductor section           IEC         min mm² 2.55 max mm² 35           AWG/Kcmil         min 14 max 2           Mechanical life         cycles 20000           Weight         g 185           Frontal IP degree         IP20           Pollution degree         2		normal		Vertical plan	
max Nm 2 max Ibin 15           Terminals tool         Pz 2           Conductor section         IEC         min mm² 2.5 max mm² 35           AWG/Kcmil         min mm² 35         14 max 2         2           Mechanical life         cycles 20000         20000         Weight         g 185           Frontal IP degree         IP20         Pollution degree         2	Fixing			35mm DIN rail	
Terminals tool	Tightening torque for terminals				
Terminals tool         Pz 2           Conductor section         IEC           min max         mm²		max	Nm	2	
Conductor section   IEC		max	lbin		
Frontal IP degree   IEC	Terminals tool			Pz 2	
Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2	Conductor section				
AWG/Kcmil         max         mm²         35           min max         14         14           max         2           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2	IEC				
AWG/Kcmil           min max         14 max         2           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2		min	mm²	2.5	
min max         14 max           Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2		max	mm²	35	
Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2	AWG/Kcmil				
Mechanical life         cycles         20000           Weight         g         185           Frontal IP degree         IP20           Pollution degree         2		min		14	
Weight g 185 Frontal IP degree IP20 Pollution degree 2		max		2	
Frontal IP degree IP20 Pollution degree 2	Mechanical life		cycles	20000	
Pollution degree 2	Weight		g	185	
Pollution degree 2			<del>-</del>	IP20	
				2	



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## Wiring diagrams



## Certifications and compliance

Compliance

IEC/EN/BS 61008-1



## P1RD2P25A030

electric RESIDUAL CURRENT OPERATED CIRCUIT BREAKER, 2 MODULES, 2P - TYPE A, 25A, 30MA

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Certifications

EAC TÜV-SUD

ETIM classification

ETIM 8.0

EC000003 -Residual current circuit breaker (RCCB)