



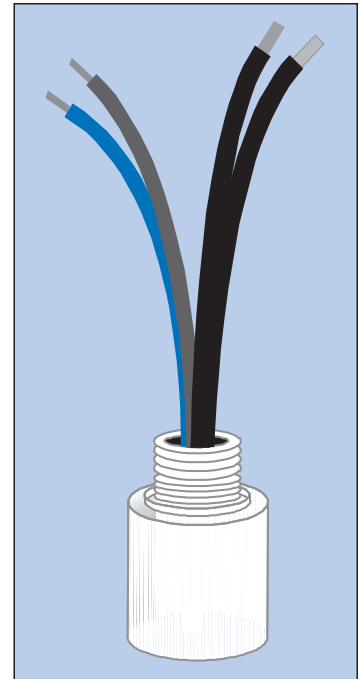
# CURRENT SENSING BRAKE RELAY (IR) INSTALLATION & MAINTENANCE



## Current Sensing Relay (IR)



The current sensing relay, is used to achieve a fast brake engagement (stopping) without the use of external control equipment or additional wiring. The relay is mounted directly on the conduit box, and is powered from the motor's terminal block. The power leads for the relay replace one of the brass jumper bars on the terminal block of any single speed motor. The switch leads are connected to terminals 3 and 4 of the rectifier. When the power to the motor is shut off, the IR relay opens the brake circuit on the DC side which allows the brake to de-magnetize quickly.



### IMPORTANT NOTE

#### Current Sensing Relay Requirements

- Brake must be powered from the motor's terminal block (not separately powered)
- Motor must be single speed and should not be powered by a frequency inverter or soft starter.

Part number	18556010	18556020
Reissmann Part Number	RSR 25-46	RSR 50-46
Primary Current Rating (black/white wires)	25A <sub>AC</sub>	50 A <sub>AC</sub>
Maximum Primary Current (black/white wires)	75A <sub>AC</sub>	150 A <sub>AC</sub>
Maximum Time at Maximum Primary Current	0.2 s	0.2 s
Maximum Cycles per hour	500	500
Switching Voltage	42 - 550V <sub>DC</sub>	42 - 550V <sub>DC</sub>
Switching Current (red/blue wires)	1.0 A <sub>DC</sub>	1.0 A <sub>DC</sub>
Holding Current ①	< 0.7 A <sub>AC</sub>	< 0.7 A <sub>AC</sub>
Delay Time ②	18 ms	18 ms
Enclosure Rating	IP65	IP65
Ambient Temp.	- 25 to 90 °C (- 40 to 167 °F)	- 25 to 90 °C (- 40 to 167 °F)

① Relative to the distortion created by the magnetising current of the motor.

② Additional setting time delay added to the DC-setting time of the brake circuit.

### IR Relay Wiring Diagram

Rectifier			IR-Relay Wires to Rectifier	
Model Type	Part Number	Design	Red	Blue
GVE20L	1914000	Full-wave	4	3
GHE40L	19141010	Half-wave	4	3
GHE50L	19141020	Half-wave	4	3
GPE20L	19140230	Push-hybrid	4	3
GPE40L	19140240	Push-hybrid	4	3
GUE40V	19140300	Dual Wave	4	3

### Conduit Box Thread Adapter

Thread	Motor Frame	Part Number	O-Ring
M20	63-71	18542006*	25501615
M25	80-90	18522253	25501615
M32	100-132	18522320	25501615
M40	160-180	18522400 + 18522253	25501615

\* Spacer



# CURRENT SENSING BRAKE RELAY (IR) INSTALLATION & MAINTENANCE



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## IR Relay Selection Table for 4-Pole Motors

Type	Efficiency	230/460 V 60 Hz	460V D 60 Hz	332/575V 60 Hz	208/360 V 60 Hz	230/400V 50 Hz	400/690V 50 Hz
63S/4	SE (IE1)	25A	-	25A	25A	25A	-
63SP/4	PE (IE3)	25A	-	25A	-	25A	-
63L/4	SE (IE1)	25A	-	25A	25A	25A	-
63LP/4	PE (IE3)	25A	-	25A	-	25A	-
71S/4	SE (IE1)	25A	-	25A	25A	25A	-
71SP/4	PE (IE3)	25A	-	25A	-	25A	-
71L/4	SE (IE1)	25A	-	25A	25A	25A	-
71LP/4	PE (IE3)	25A	-	25A	-	25A	-
80S/4	SE (IE1)	25A	-	25A	25A	25A	-
80SH/4	EE (IE2)	-	-	-	-	25A	-
80SP/4	PE (IE3)	25A	-	25A	-	25A	-
80L/4	SE (IE1)	25A	-	25A	25A	25A	-
80LH/4	EE (IE2)	25A	-	25A	-	25A	-
80LP/4	PE (IE3)	25A	-	25A	-	25A	-
90S/4	SE (IE1)	25A	-	25A	25A	25A	-
90SH/4	EE (IE2)	25A	-	25A	-	25A	-
90SP/4	PE (IE3)	25A	-	25A	-	25A	-
90L/4	SE (IE1)	25A	-	25A	25A	25A	-
90LH/4	EE (IE2)	25A	-	25A	-	25A	-
90LP/4	PE (IE3)	25A	-	25A	-	25A	-
100L/4	SE (IE1)	25A	-	25A	25A	-	25A
100LH/4	EE (IE2)	25A	-	25A	-	-	25A
100LP/4	PE (IE3)	25A	-	25A	-	-	25A
100LA/4	SE (IE1)	25A	-	25A	25A	-	25A
100AH/4	EE (IE2)	-	-	-	-	-	25A
100AP/4	PE (IE3)	-	-	-	-	-	25A
112M/4	SE (IE1)	-	-	-	-	-	25A
112MH/4	EE (IE2)	25A	-	25A	-	-	25A
112MP/4	PE (IE3)	25A	-	25A	-	-	25A
132S/4	SE (IE1)	25A	-	25A	25A	-	25A
132SH/4	EE (IE2)	25A	-	25A	-	-	25A
132SP/4	PE (IE3)	25A	-	25A	-	-	25A
132M/4	SE (IE1)	25A	-	25A	25A	-	25A
132MH/4	EE (IE2)	25A	-	25A	-	-	25A
132LH/4	EE (IE2)	-	-	-	-	-	25A
132MA/4	SE (IE1)	-	-	-	-	-	25A
132MP/4	PE (IE3)	25A	-	25A	-	-	25A

25 A (P/N 18556010) – IR Relay is rated for 25 Amp motor phase current.

50 A (P/N 18556020) – IR Relay is rated for 50 Amp motor phase current.

N/A – IR Relay option is not available.

*Observe the efficiency law requirements for the country that the motor will be utilized in.*

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## IR Relay Selection Table for 4-Pole Motors Ctd.

Type	Efficiency	230/460 V 60 Hz	460V D 60 Hz	332/575V 60 Hz	208/360 V 60 Hz	230/400V 50 Hz	400/690V 50 Hz
160SH/4	EE (IE2)	-	-	-	-	-	25A
160SP/4	PE (IE3)	-	-	-	-	-	25A
160M/4	SE (IE1)	25A	-	25A	-	-	25A
160MH/4	EE (IE2)	25A	-	25A	-	-	25A
160MP/4	PE (IE3)	25A	-	25A	-	-	25A
160L/4	SE (IE1)	25A	-	25A	-	-	25A
160LH/4	EE (IE2)	25A	-	25A	-	-	50 A
160LP/4	PE (IE3)	25A	-	25A	-	-	50 A
180MX/4	SE (IE1)	50 A	-	25A	-	-	25A
180MH/4	EE (IE2)	50 A	-	25A	-	-	50 A
180MP/4	PE (IE3)	50 A	-	25A	-	-	50 A
180LX/4	SE (IE1)	50 A	-	50 A	-	-	25A
180LH/4	EE (IE2)	50 A	-	50 A	-	-	50 A
180LP/4	PE (IE3)	50 A	-	50 A	-	-	50 A
200LX/4	SE (IE1)	50 A	-	50 A	-	-	50 A
200XH/4	EE (IE2)	N/A	-	50 A	-	-	N/A
225RP/4	PE (IE3)	-	50 A	50 A	-	-	N/A
225SH/4	EE (IE2)	-	50 A	50 A	-	-	N/A
225SP/4	PE (IE3)	-	50 A	50 A	-	-	N/A
225MH/4	EE (IE2)	-	50 A	N/A	-	-	N/A
225MP/4	PE (IE3)	-	50 A	N/A	-	-	N/A
250WH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
250WP/4	PE (IE3)	-	50 A	N/A	-	-	N/A
280SH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
280SP/4	PE (IE3)	-	N/A	N/A	-	-	N/A
280MH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
280MP/4	PE (IE3)	-	N/A	N/A	-	-	N/A
315SH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
315SP/4	PE (IE3)	-	N/A	N/A	-	-	N/A
315MH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
315MP/4	PE (IE3)	-	N/A	N/A	-	-	N/A
315RH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
315RP/4	PE (IE3)	-	N/A	N/A	-	-	N/A
315LH/4	EE (IE2)	-	N/A	N/A	-	-	N/A
315LP/4	PE (IE3)	-	N/A	N/A	-	-	N/A

25 A (P/N 18556010) – IR Relay is rated for 25 Amp motor phase current.

50 A (P/N 18556020) – IR Relay is rated for 50 Amp motor phase current.

N/A – IR Relay option is not available.

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# CURRENT SENSING BRAKE RELAY (IR) INSTALLATION & MAINTENANCE



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## IR Relay Typical Connection Diagrams

<p><b>IR101A</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>208-230Vr/460V 230Vr/460V</td> <td>GVE20</td> <td>208VAC 230 VAC</td> <td>230 VAC 230 VAC</td> <td>205 VDC 205 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	208-230Vr/460V 230Vr/460V	GVE20	208VAC 230 VAC	230 VAC 230 VAC	205 VDC 205 VDC	<p><b>IR101B</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>230Vr/460V</td> <td>GVE20</td> <td>460 VAC</td> <td>230 VAC</td> <td>205 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	230Vr/460V	GVE20	460 VAC	230 VAC	205 VDC	<p><b>IR102A</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>208-230Vr/460V 230Vr/460V</td> <td>GHE40</td> <td>208VAC 230 VAC</td> <td>230 VAC 230 VAC</td> <td>105 VDC 105 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	208-230Vr/460V 230Vr/460V	GHE40	208VAC 230 VAC	230 VAC 230 VAC	105 VDC 105 VDC	<p><b>IR102B</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>230Vr/460V</td> <td>GHE40</td> <td>460 VAC</td> <td>230 VAC</td> <td>105 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	230Vr/460V	GHE40	460 VAC	230 VAC	105 VDC
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<p><b>IR103</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>230Vr/460V</td> <td>GHE40</td> <td>460 VAC</td> <td>460VAC</td> <td>205 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	230Vr/460V	GHE40	460 VAC	460VAC	205 VDC	<p><b>IR301</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>208Δ/360V 230Δ/400V</td> <td>GVE20</td> <td>208 VAC 230 VAC</td> <td>208 VAC 230 VAC</td> <td>180 VDC 205 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	208Δ/360V 230Δ/400V	GVE20	208 VAC 230 VAC	208 VAC 230 VAC	180 VDC 205 VDC	<p><b>IR401</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>460Δ/800V</td> <td>GHE40</td> <td>460 VAC</td> <td>460 VAC</td> <td>205 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	460Δ/800V	GHE40	460 VAC	460 VAC	205 VDC	<p><b>IR501</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>332Δ/575V</td> <td>GHE50</td> <td>575 VAC</td> <td>575 VAC</td> <td>250 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	332Δ/575V	GHE50	575 VAC	575 VAC	250 VDC
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332Δ/575V	GHE50	575 VAC	575 VAC	250 VDC																																							
<p><b>IR601</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>230Δ/400V 230Δ/400V</td> <td>GVE20 GHE40</td> <td>400 VAC 400 VAC</td> <td>230 VAC 230 VAC</td> <td>205 VDC 105 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	230Δ/400V 230Δ/400V	GVE20 GHE40	400 VAC 400 VAC	230 VAC 230 VAC	205 VDC 105 VDC	<p><b>IR602</b> POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) <b>15</b></p> <table border="1"> <thead> <tr> <th>MOTOR</th> <th>RECTIFIER</th> <th>V<sub>motor</sub></th> <th>V<sub>B-AC</sub></th> <th>V<sub>B-DC</sub></th> </tr> </thead> <tbody> <tr> <td>400Δ/690V</td> <td>GHE40</td> <td>400 VAC</td> <td>400 VAC</td> <td>180 VDC</td> </tr> </tbody> </table>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	400Δ/690V	GHE40	400 VAC	400 VAC	180 VDC	<p><b>IMPORTANT NOTE</b></p> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>• Brake must be powered from the motor's terminal block (not separately powered)</li> <li>• Motor must be a single speed and should not be powered by a frequency inverter or soft starter.</li> </ul>																					
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= Braking Method

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## IR Relay with GUE40V Dual Wave Rectifier

IR701A POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) 15					IR701B POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) 15					IR702A POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) 15					IR702B POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) 15				
MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>
208-230m/460v 230rr/460v	GUE40V	208 VAC 230 VAC	230 VAC 230 VAC	205 VDC 205 VDC	208-230m/460v 230rr/460v	GUE40V	460 VAC 460 VAC	460 VAC 460 VAC	205 VDC 205 VDC	208Δ/360v 230Δ/400v	GUE40V	208 VAC 230 VAC	208 VAC 230 VAC	180 VDC 205 VDC	230Δ/400v	GUE40V	400 VAC	400 VAC	180 VDC

## GPE Rectifier for External DC-Switching with IR Relay

IR151A POWERED FROM MOTOR TERMINAL BLOCK FAST RELEASE (OVER EXCITATION) FAST STOPPING (DC-SWITCHING) 35					IR151B POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE FAST STOPPING (DC-SWITCHING) 35					IR152A POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE STANDARD-RELEASE VERY FAST STOPPING (REDUCED POWER HOLD) 40					IR152B POWERED FROM MOTOR TERMINAL BLOCK STANDARD-RELEASE STANDARD-RELEASE VERY FAST STOPPING (REDUCED POWER HOLD) 40				
MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>	MOTOR	RECTIFIER	V <sub>motor</sub>	V <sub>B-AC</sub>	V <sub>B-DC</sub>
230rr/460v	GPE20L	230 VAC	230 VAC	105 VDC	230rr/460v	GPE20L	460 VAC	230 VAC	105 VDC	230rr/460v	GPE20L	230 VAC	230 VAC	205 VDC	230rr/460v	GPE20L	460 VAC	230 VAC	205 VDC

**IMPORTANT NOTE**

**Requirements**

- Brake must be powered from the motor's terminal block (not separately powered)
- Motor must be a single speed and should not be powered by a frequency inverter or soft starter.

