

# GS4 DURAPULSE Accessories – Fusing

## Fuse Selection for GS4 AC Drives

The fuses shown in the table below are available from AutomationDirect. Further information, including dimensional information, is available at [AutomationDirect.com](http://AutomationDirect.com).

Fuse Specification Chart GS4 DURAPULSE Drives														
Drive Model	For Three-Phase Input Power						For Single-Phase Input Power							
	HP	Input Power			Input Fuse ***			HP	Input Power			Input Fuse ***		
		Ø	Volts	GS4 Amps	Fuse Amps	Fast Acting Class T	Edison Class J*		Ø	Volts	GS4 Amps	Fuse Amps	Fast Acting Class T	Edison Class J*
<a href="#">GS4-21P0</a>	1	3	230	6.4	10	<a href="#">TJN10</a>	<a href="#">JHL10</a>	0.5	1	230	6.4	10	<a href="#">TJN10</a>	<a href="#">JHL10</a>
<a href="#">GS4-22P0</a>	2	3	230	12	15	<a href="#">TJN15</a>	<a href="#">JHL15</a>	0.75	1	230	9.7	15	<a href="#">TJN15</a>	<a href="#">JHL15</a>
<a href="#">GS4-23P0</a>	3	3	230	16	25	<a href="#">TJN25</a>	<a href="#">JHL25</a>	1	1	230	15	20	<a href="#">TJN20</a>	<a href="#">JHL20</a>
<a href="#">GS4-25P0</a>	5	3	230	20	35	<a href="#">TJN35</a>	<a href="#">JHL35</a>	2	1	230	20	30	<a href="#">TJN30</a>	<a href="#">JHL30</a>
<a href="#">GS4-27P5</a>	7.5	3	230	28	50	<a href="#">TJN50</a>	<a href="#">JHL50</a>	3	1	230	26	40	<a href="#">TJN40</a>	<a href="#">JHL40</a>
<a href="#">GS4-2010</a>	10	3	230	36	70	<a href="#">TJN70</a>	<a href="#">JHL70</a>	3	1	230	26	40	<a href="#">TJN40</a>	<a href="#">JHL40</a>
<a href="#">GS4-2015</a>	15	3	230	52	100	<a href="#">TJN100</a>	<a href="#">JHL100</a>	5	1	230	40	70	<a href="#">TJN70</a>	<a href="#">JHL70</a>
<a href="#">GS4-2020</a>	20	3	230	72	125	<a href="#">TJN125</a>	<a href="#">JHL125</a>	7.5	1	230	58	100	<a href="#">TJN100</a>	<a href="#">JHL100</a>
<a href="#">GS4-2025</a>	25	3	230	83	150	<a href="#">TJN150</a>	<a href="#">JHL150</a>	10	1	230	76	125	<a href="#">TJN125</a>	<a href="#">JHL125</a>
<a href="#">GS4-2030</a>	30	3	230	99	175	<a href="#">TJN175</a>	<a href="#">JHL175</a>	10	1	230	76	125	<a href="#">TJN125</a>	<a href="#">JHL125</a>
<a href="#">GS4-2040**</a>	40	3	230	124	175	<a href="#">TJN175</a>	<a href="#">JHL175</a>	10	1	230	63	90	<a href="#">TJN90</a>	<a href="#">JHL90</a>
<a href="#">GS4-2050**</a>	50	3	230	143	200	<a href="#">TJN200</a>	<a href="#">JHL200</a>	10	1	230	63	90	<a href="#">TJN90</a>	<a href="#">JHL90</a>
<a href="#">GS4-2060</a>	60	3	230	171	250	<a href="#">TJN250</a>	<a href="#">JHL250</a>	15	1	230	94	150	<a href="#">TJN150</a>	<a href="#">JHL150</a>
<a href="#">GS4-2075</a>	75	3	230	206	300	<a href="#">TJN300</a>	<a href="#">JHL300</a>	20	1	230	124	175	<a href="#">TJN175</a>	<a href="#">JHL175</a>
<a href="#">GS4-2100</a>	100	3	230	245	350	<a href="#">TJN350</a>	<a href="#">JHL350</a>	25	1	230	143	200	<a href="#">TJN200</a>	<a href="#">JHL200</a>
<a href="#">GS4-41P0</a>	1	3	460	4.3	6	<a href="#">TJS6</a>	<a href="#">JHL6</a>	single-phase input power not applicable for 460V						
<a href="#">GS4-42P0</a>	2	3	460	5.9	10	<a href="#">TJS10</a>	<a href="#">JHL10</a>							
<a href="#">GS4-43P0</a>	3	3	460	8.7	15	<a href="#">TJS15</a>	<a href="#">JHL15</a>							
<a href="#">GS4-45P0</a>	5	3	460	14	20	<a href="#">TJS20</a>	<a href="#">JHL20</a>							
<a href="#">GS4-47P5</a>	7.5	3	460	17	25	<a href="#">TJS25</a>	<a href="#">JHL25</a>							
<a href="#">GS4-4010</a>	10	3	460	20	35	<a href="#">TJS35</a>	<a href="#">JHL35</a>							
<a href="#">GS4-4015</a>	15	3	460	26	45	<a href="#">TJS45</a>	<a href="#">JHL45</a>							
<a href="#">GS4-4020</a>	20	3	460	35	60	<a href="#">TJS60</a>	<a href="#">JHL60</a>							
<a href="#">GS4-4025</a>	25	3	460	40	70	<a href="#">TJS70</a>	<a href="#">JHL70</a>							
<a href="#">GS4-4030</a>	30	3	460	47	90	<a href="#">TJS90</a>	<a href="#">JHL90</a>							
<a href="#">GS4-4040**</a>	40	3	460	63	125	<a href="#">TJS100</a>	<a href="#">JHL100</a>							
<a href="#">GS4-4050</a>	50	3	460	74	100	<a href="#">TJS110</a>	<a href="#">JHL110</a>							
<a href="#">GS4-4060</a>	60	3	460	101	125	<a href="#">TJS150</a>	<a href="#">JHL150</a>							
<a href="#">GS4-4075</a>	75	3	460	114	150	<a href="#">TJS150</a>	<a href="#">JHL150</a>							
<a href="#">GS4-4100</a>	100	3	460	157	200	<a href="#">TJS200</a>	<a href="#">JHL200</a>							
<a href="#">GS4-4125</a>	125	3	460	167	250	<a href="#">TJS250</a>	<a href="#">JHL250</a>							
<a href="#">GS4-4150</a>	150	3	460	207	300	<a href="#">TJS300</a>	<a href="#">JHL300</a>							
<a href="#">GS4-4175</a>	175	3	460	240	350	<a href="#">TJS350</a>	<a href="#">JHL350</a>							
<a href="#">GS4-4200</a>	200	3	460	300	450	<a href="#">TJS450</a>	<a href="#">JHL450</a>							
<a href="#">GS4-4250</a>	250	3	460	380	500	<a href="#">TJS500</a>	<a href="#">JHL500</a>							
–	–						Fast Acting Current Limiting Class L							
<a href="#">GS4-4300</a>	300	3	460	400	700	<a href="#">LCU700</a>								

\* High-speed Class J

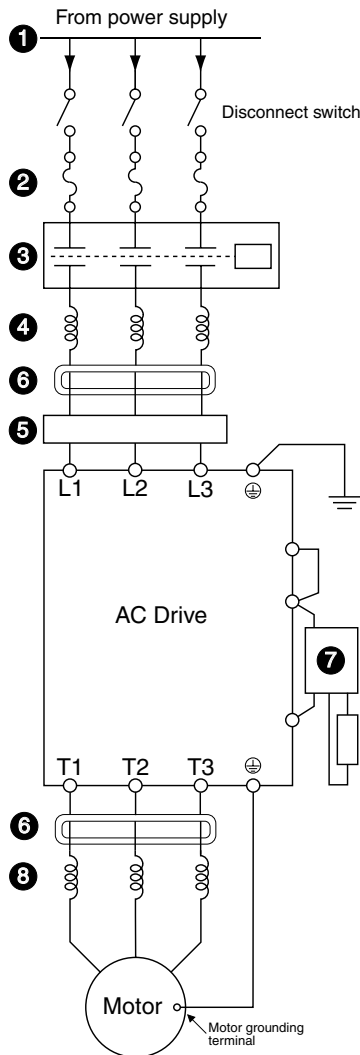
\*\* Includes DC choke

\*\*\* The fuses listed above are available from [AutomationDirect.com](http://AutomationDirect.com). (Individual web links are associated with each part number listed above.)

# AC Drives Optional Accessories – Overview

## Drive Accessories

(not all accessories are applicable for every drive model)



## 1 Power Supply

Please follow the specific power supply requirements as detailed in the specific drive manual.

## 2 Fuses

Input fuses protect the AC drive from excessive input current due to line surges, short circuits, and ground faults. They are recommended for all installations and may be required for UL-listed installations.

## 3 Contactor (Optional)

Do not use a contactor or disconnect switch for run/stop control of the AC drive and motor. This will reduce the operating life cycle of the AC drive. Cycling a power circuit switching device while the AC drive is in run mode should be done only in emergency situations.

## 4 Input Line Reactor (Optional)

See the Line Reactors section at [www.automationdirect.com](http://www.automationdirect.com) for more information.

Input line reactors protect the AC drive from transient overvoltage conditions, typically caused by utility capacitor switching. The input line reactor also reduces the harmonics associated with AC drives. Input line reactors are recommended for all installations.

## 5 EMI filter (Optional)

See the EMI Filters section at [www.automationdirect.com](http://www.automationdirect.com) for more information.

Input EMI filters reduce electromagnetic interference or noise on the input side of the AC drive. They are required for CE compliance and recommended for installations prone to or sensitive to electromagnetic interference.

## 6 RF filter (Optional)

RF filters reduce the radio frequency interference or noise on the input or output side of the inverter.

## 7 Braking Unit and/or Braking Resistor (Optional)

Dynamic braking allows the AC drive to produce additional braking (stopping) torque. AC drives can typically produce between 15% & 20% braking torque without the addition of any external components. The addition of optional braking may be required for applications that require rapid deceleration or high inertia loads.

## 8 Output Load Reactor or Voltage Time (dV/dT) Filter (Optional)

Output line reactors protect the motor insulation against AC drive short circuits and IGBT reflective wave damage, and also "smooth" the motor current waveform, allowing the motor to run cooler. They are **recommended for operating "noninverter-duty" motors and when the length of wiring between the AC drive and motor is less than 100 feet.**

**Voltage Time filters provide enhanced protection for motors with distances up to 1,000 feet.**

Voltage Time filters provide even more protection against wave reflection and reduce common mode noise. They are recommended when the length of wiring between the AC drive and motor is from 100 feet up to 1,000 feet.

See [www.automationdirect.com](http://www.automationdirect.com) for specific product offerings.