

SJ300 Accessories — AC Line Reactors

Overview

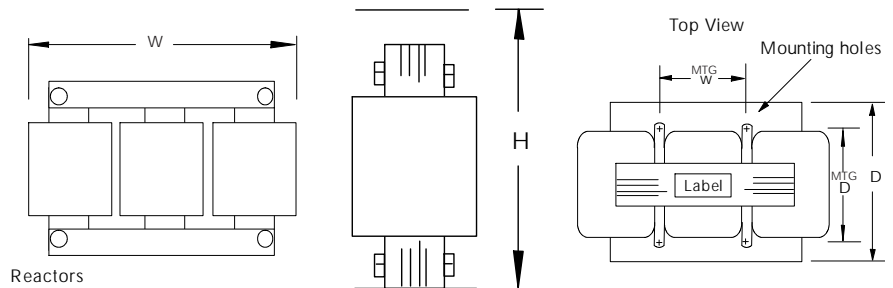
Line reactors are useful when harmonic suppression measures must be taken, when the main power voltage unbalance rate exceeds 3% and the main power capacity exceeds 500 kVA, or when a sudden power voltage variation occurs. They also protect drive diodes.

200-230 Volt, Three-phase				
AC Reactor Part #	Rated Hp	Fund. Amps	Actual mH	Equiv. %Z
HRL010H	1/4	1.3	12	4.24
HRL005L	1/2	2.0	6	3.26
HRL010L	1	3.6	3	2.94
HRL020L	2	6.8	1.5	2.78
HRL030L	3	9.6	1.25	3.26
HRL050L	5	15.2	0.8	3.31
HRL075L	7.5	22.0	0.5	2.99
HRL110L	10	28.0	0.4	3.05
HRL115L	15	42.0	0.3	3.43
HRL120L	20	54.0	0.25	3.67
HRL130L	25	68.0	0.2	3.7
HRL130L	30	80.0	0.2	4.35
380-480 Volt, Three-phase				
HRL005H	1/2	1.0	20	2.72
HRL010H	1	1.8	12	2.94
HRL030H	3	4.8	6.5	4.24
HRL050H	5	7.6	3	3.1
HRL075H	7.5	11.0	2.5	3.74
HRL110H	10	14.0	1.5	2.86
HRL115H	15	21.0	1.2	3.43
HRL120H	20	27.0	0.80	2.94
HRL130H	25	34.0	0.80	3.7

AC Line Reactor (HRLxxx) Dimensions						
AC Line Reactor Part #	W*	H*	D*	Mtg D*	Mtg W*	Price
HRL005L	4.40"(112)	4.10"(104)	2.75"(70)	1.98"(50)	1.44"(37)	<-->
HRL010L	4.40"(112)	4.10"(104)	3.00"(76)	1.98"(50)	1.44"(37)	<-->
HRL020L	6.00"(152)	5.00"(127)	2.98"(76)	2.10"(53)	2.00"(51)	<-->
HRL030L	6.00"(152)	5.00"(127)	2.98"(76)	2.10"(53)	2.00"(51)	<-->
HRL050L	6.00"(152)	5.25"(133)	3.40"(86)	2.48"(63)	2.00"(51)	<-->
HRL075L	7.20"(183)	5.76"(146)	3.35"(85)	2.35"(60)	3.00"(76)	<-->
HRL110L	7.60"(193)	5.76"(146)	3.60"(91)	2.60"(66)	3.00"(76)	<-->
HRL115L	9.0"(229)	5.76"(146)	4.8"(122)	3.2"(80)	3.00"(76)	<-->
HRL120L	9.0"(229)	7.0"(178)	4.8"(122)	3.2"(80)	3.00"(76)	<-->
HRL130L	10.8"(274)	8.2"(208)	5.6"(142)	3.5"(88)	3.6"(92)	<-->
HRL005H	4.40"(112)	4.10"(104)	2.75"(70)	1.98"(50)	1.44"(37)	<-->
HRL010H	4.40"(112)	4.10"(104)	2.75"(70)	1.98"(50)	1.44"(37)	<-->
HRL030H	4.40"(112)	4.10"(104)	3.00"(76)	1.98"(50)	1.44"(37)	<-->
HRL050H	6.00"(152)	5.00"(127)	3.00"(76)	2.10"(53)	2.00"(51)	<-->
HRL075H	6.00"(152)	5.00"(127)	3.00"(76)	2.10"(53)	2.00"(51)	<-->
HRL110H	6.00"(152)	5.25"(133)	3.40"(86)	2.48"(63)	2.00"(51)	<-->
HRL115H	7.20"(183)	5.76"(146)	3.35"(85)	2.35"(60)	3.00"(76)	<-->
HRL120H	7.20"(183)	5.70"(145)	3.80"(97)	2.60"(66)	3.00"(76)	<-->
HRL130H	9.0"(229)	7.0"(178)	4.8"(122)	3.2"(80)	3.00"(76)	<-->

*in (mm)

Dimensional drawings



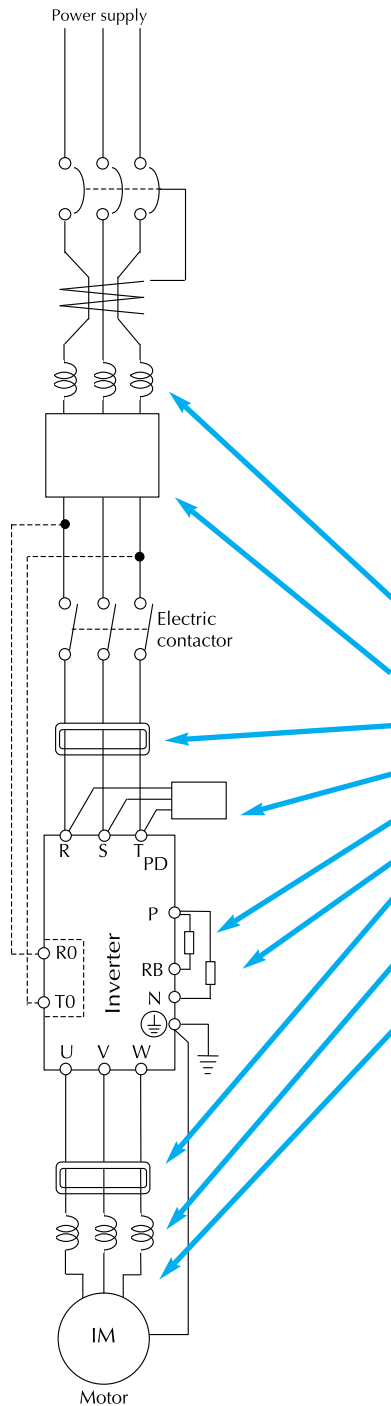
SJ300 Accessories — Introduction

Customize your application

We offer a complete line of accessories that allows you to customize your SJ300 application. Choose from the accessories in the table below to enhance your SJ300's performance. Detailed specifications on the SJ300 accessories are located on the next few pages.

Warning

If your application requires a non-time controlled stop (Emergency Stop), then you must wire an E-Stop and provide a mechanical stop in your process. Depending on inertia and other factors, fast stopping can be achieved without an E-Stop, but it remains non-time-controlled. The user must determine whether a time-controlled stop is adequate for the process.



Accessories	
Name	Function
AC Reactor (HRL-x)	This is useful when harmonic suppression measures must be taken, when the main power voltage unbalance rate exceeds 3% and the main power capacity exceeds 500kVA, or when a sudden power voltage variation occurs. Protects drive diodes.
EMI Filter (FFL-x)	Reduces electromagnetic interference or noise on the input side of the inverter. For CE compliance.
RF Filter, Input Side (ZCL-x)	Reduces FR noise on the input side of the inverter. -B40 (400V & 200V to 5Hp), -A (200V above 5Hp)
Capacitive Filter (CFI-x)	Reduces radio frequency noise on the input side of the inverter. -L for 200V and -H for 400V (Non CE)
Braking Resistor	Used to increase the control torque of the inverter, for frequently repeated ON-OFF cycles of the inverter, or for decelerating a load with large inertia.
Braking Unit (BRD-x)	Used to increase the control torque of the inverter, for frequently repeated ON-OFF cycles of the inverter, or for decelerating a load with large inertia.
RF Filter, Output Side (ZCL-A, ZCL-B40)	Reduces radio frequency interference or noise on the output side of the inverter. (This is the same part as that on the input side.)
Output AC Reactor (HRL-x)	Used to reduce motor vibration. When the wire length between the inverter and motor is more than 30 feet, this unit protects the motor insulation from harmonics. A current sensor may be used instead of the thermal relay.
Output Wiring	Must be shielded for CE compliance.

