PRODUCT NAME

JL/X SLIP RING MOTOR CONTROLLER

DESCRIPTION

The JL/X range of slip ring motor drives is a derivation of the PL/X Digital DC drive product range. It shares the same software and hardware platforms and delivers the same precise digital control functionality enjoyed by users of the established range of DC Drives. The main difference between the PL/X and JL/X range is that the thyristor stack configuration has been designed to provide a firing angle controlled 3 phase output (U, V, W) suitable for controlling slip ring motors in either 2 or 4 Quadrant modes. All the fieldbus options and configuration software packages used with the PL/X are also available for the JL/X range.

The JL/X range covers output currents from 100 to 1680 Amps and is available in 3 frame sizes with standard supply voltage inputs up to 500VAC. (Frame 2, 4 and 5). Frame 4 and 5 also have the option of being supplied as MV or HV units that are able to accept AC supply voltages up to 600 or 690 VAC for higher voltage applications. All models have the high current 3 phase supply terminals in standard top entry, with the motor connections at the bottom of the unit. The overload capability of this range is 150% for 25 seconds.

PRODUCT NAME

JL/XHD HIGH DUTY SLIP RING MOTOR CONTROLLER

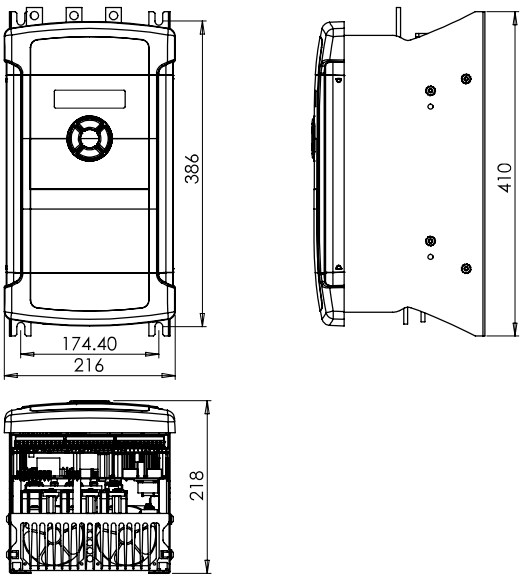
DESCRIPTION

The JL/XHD range of slip ring motor drives is a derivation of the PL/X Digital DC drive product range. It shares the same software and hardware platforms and delivers the same precise digital control functionality enjoyed by users of the established range of DC Drives. The main difference between the PL/X and JL/X range is that the thyristor stack configuration has been designed to provide a firing angle controlled 3 phase output (U, V, W) suitable for controlling slip ring motors in either 2 or 4 Quadrant modes. All the fieldbus options and configuration software packages used with the PL/X are also available for the JL/X range.

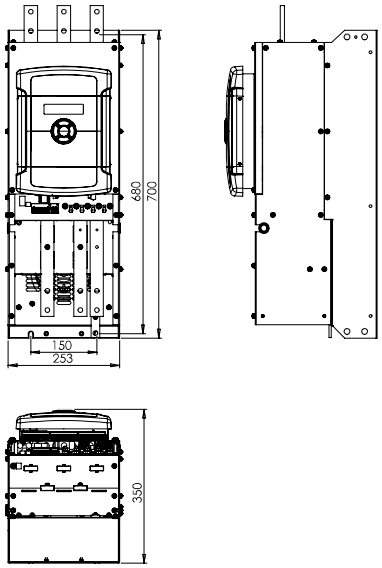
The JL/XHD range covers output currents from 100 to 1010 Amps and is available in 3 frame sizes with standard supply voltage inputs up to 500VAC. (Frame 2, 4 and 5). Frame 4 and 5 also have the option of being supplied as MV or HV units that are able to accept AC supply voltages up to 600 or 690 VAC for higher voltage applications. All models have the high current 3 phase supply terminals in standard top entry, with the motor connections at the bottom of the unit. The overload capability of this high duty range is 250% for 25 seconds.

FRAME DIMENSIONS

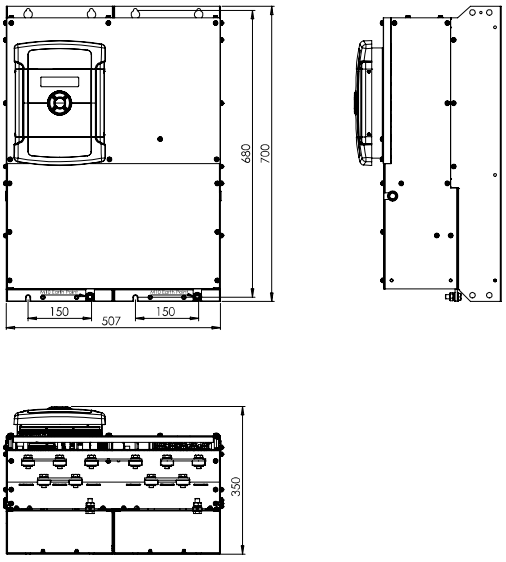
JL/X
130 - 270



JL/X
370 - 780



JL/X
860 - 1680



RATING TABLE FOR JL/X STANDARD VERSIONS

These models have a 150% overload capability for 25 seconds

Nominal maximum continuous shaft ratings

Model JL 2 quadrant JLX 4 quadrant Suffix HV for 690 VAC		kW at 415 Volt AC	HP at 415 Volt AC	HP at 480 Volt AC	HP 600V AC MV model	HP 690V AC HV model	100% Output Current	Line reactor type	Cooling air flow and dissipation cfm	 watts	Dimensions mm W x H x D
Frame 2	Model										
JL and JLX	130	75	100	115	-	-	130	LR330	365	380	216 x 410 x 218
JL and JLX	170	100	130	150	-	-	170	LR330	365	500	216 x 410 x 218
JL and JLX	220	130	170	200	-	-	220	LR330	365	650	216 x 410 x 218
JL and JLX	270	160	210	240	-	-	270	LR330	365	875	216 x 410 x 218
Frame 4											
JL and JLX	370	215	290	335	415	480	370	LR530	400	1200	253 x 700 x 350
JL and JLX	450	260	350	405	500	580	450	LR530	400	1450	253 x 700 x 350
JL and JLX	530	310	415	480	600	690	530	LR650	400	1700	253 x 700 x 350
JL and JLX	615	360	480	555	690	800	615	LR750	400	2000	253 x 700 x 350
JL and JLX	700	405	550	630	785	915	700	LR850	400	2300	253 x 700 x 350
JL and JLX	780	450	610	705	880	1015	780	LR950	400	2500	253 x 700 x 350
Frame 5											
JL and JLX	860	500	670	775	965	1115	860	LR1050	800	2700	507 x 700 x 350
JL and JLX	1025	595	800	925	1155	1330	1025	LR1250	800	3200	507 x 700 x 350
JL and JLX	1190	690	930	1075	1340	1550	1190	LR1450	800	3700	507 x 700 x 350
JL and JLX	1350	785	1055	1220	1505	1755	1350	LR1650	800	4200	507 x 700 x 350
JL and JLX	1520	880	1190	1375	1715	1980	1520	LR1850	800	4700	507 x 700 x 350
JL and JLX	1680	975	1310	1515	1890	2180	1680	LR2050	800	5200	507 x 700 x 350

RATING TABLE FOR JL/XHD HIGH DUTY VERSIONS

These models have a 250% overload capability for 25 seconds

Nominal maximum continuous shaft ratings

Model JLHD 2 quadrant JLXHD 4 quadrant Suffix HV for 690 VAC		kW at 415 Volt AC	HP at 415 Volt AC	HP at 480 Volt AC	HP 600V AC MV model	HP 690V AC HV model	100% Output Current	Line reactor type	Cooling air flow and dissipation cfm	 watts	Dimensions mm W x H x D
Frame 2	Model										
JLHD & JLXHD	75	45	60	70	-	-	75	LR330	365	380	216 x 410 x 218
JLHD & JLXHD	100	60	80	90	-	-	100	LR330	365	500	216 x 410 x 218
JLHD & JLXHD	130	75	100	115	-	-	130	LR330	365	650	216 x 410 x 218
JLHD & JLXHD	160	95	125	145	-	-	160	LR330	365	875	216 x 410 x 218
Frame 4											
JLHD & JLXHD	220	130	170	200	250	280	220	LR530	400	1200	253 x 700 x 350
JLHD & JLXHD	270	160	210	240	300	350	270	LR530	400	1450	253 x 700 x 350
JLHD & JLXHD	320	190	250	290	360	415	320	LR650	400	1700	253 x 700 x 350
JLHD & JLXHD	370	215	290	335	420	480	370	LR750	400	2000	253 x 700 x 350
JLHD & JLXHD	420	245	330	380	475	550	420	LR850	400	2300	253 x 700 x 350
JLHD & JLXHD	470	270	370	430	535	615	470	LR950	400	2500	253 x 700 x 350
Frame 5											
JLHD & JLXHD	520	300	405	470	585	670	520	LR1050	800	2700	507 x 700 x 350
JLHD & JLXHD	615	360	480	555	690	800	615	LR1250	800	3200	507 x 700 x 350
JLHD & JLXHD	715	415	560	650	810	930	715	LR1450	800	3700	507 x 700 x 350
JLHD & JLXHD	815	475	640	740	925	1065	815	LR1650	800	4200	507 x 700 x 350
JLHD & JLXHD	910	530	710	820	1025	1180	910	LR1850	800	4700	507 x 700 x 350
JLHD & JLXHD	1010	585	790	915	1140	1310	1010	LR2050	800	5200	507 x 700 x 350