

TRAVERSE

CMAA CRANE CLASS A, B & C

HITACHI
Inspire the Next

				RESISTOR VALUES	
	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS WATTS
230 Volts	1	1	WJ200-007SF	INTERNAL	150 150
	2	2	WJ200-015SF	INTERNAL	75 300
	3	2	WJ200-022SF	INTERNAL	50 400
	5	4	WJ200-037LF	INTERNAL	35 750
	7.5	6	WJ200-055LF	INTERNAL	20 1000
	10	8	WJ200-075LF	INTERNAL	17 1200
	15	11	SJ700-110LFUF2	INTERNAL	10 2000
	20	15	SJ700-150LFUF2	INTERNAL	7 2750
	25	19	SJ700-185LFUF2	INTERNAL	7 2750
	30	22	SJ700-220LFUF2	INTERNAL	5 4000
	40	30	SJ700-300LFUF2	(2) x HBU-2015	(2) x 7 (2) x 2750
	50	37	SJ700-370LFUF2	(2) x HBU-2030	(2) x 6 (2) x 3500
	60	45	SJ700-450LFUF2	(2) x HBU-2030	(2) x 5 (2) x 4000
	75	55	SJ700-550LFUF2	(2) x HBU-2030	(2) x 4 (2) x 3200
460 Volts	1	1	WJ200-007HF	INTERNAL	700 200
	2	2	WJ200-015HF	INTERNAL	350 300
	3	2	WJ200-022HF	INTERNAL	225 400
	5	4	WJ200-040HF	INTERNAL	125 750
	7.5	6	WJ200-055HF	INTERNAL	90 1000
	10	8	WJ200-075HF	INTERNAL	70 1500
	15	11	SJ700-110HFUF2	INTERNAL	50 2000
	20	15	SJ700-150HFUF2	INTERNAL	32 2750
	25	19	SJ700-185HFUF2	INTERNAL	26 3500
	30	22	SJ700-220HFUF2	INTERNAL	22 4000
	40	30	SJ700-300HFUF2	HBU-4030	16 5500
	50	37	SJ700-370HFUF2	HBU-4045	13 6600
	60	45	SJ700-450HFUF2	HBU-4045	11 8000
	75	55	SJ700-550HFUF2	(2) x HBU-4030	(2) x 18 (2) x 3200
	100	75	SJ700-750HFUF2	(2) x HBU-4045	(2) x 13 (2) x 6600
	125	90	SJ700-900HFUF2	(2) x HBU-4045	(2) x 11 (2) x 8000

Service of 10 Cycles per Hour with Average 50% Load
Typical Cycle Definition:
 Raise for 30 seconds @ 50% load
 Traverse for 60 seconds @ 50% load
 Lower for 30 seconds @ 50% load
 Raise for 30 seconds @ 10% load
 Traverse for 30 seconds @ 10% load
 Traverse Decel: 5 seconds/120% braking torque

NOTE: Cells highlighted in YELLOW signify MULTIPLE DB units and MULTIPLE resistors. ONE resistor is required for EACH DB unit.

Resistors shown are TYPICAL values based on the CMAA Class definition.

TRAVERSE

CMAA CRANE CLASS D

HITACHI
Inspire the Next

RESISTOR VALUES

	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS	WATTS
230 Volts	1	1	WJ200-007SF	INTERNAL	125	100
	2	2	WJ200-015SF	INTERNAL	60	225
	3	2	WJ200-022SF	INTERNAL	40	350
	5	4	WJ200-037LF	INTERNAL	35	400
	7.5	6	WJ200-055LF	INTERNAL	17	800
	10	8	WJ200-075LF	INTERNAL	17	800
	15	11	SJ700-110LFUF2	INTERNAL	10	2000
	20	15	SJ700-150LFUF2	INTERNAL	8	1600
	25	19	SJ700-185LFUF2	INTERNAL	8	1600
	30	22	SJ700-220LFUF2	INTERNAL	5	2750
	40	30	SJ700-300LFUF2	(2) x HBU-2030	(2) x 6	(2) x 2200
	50	37	SJ700-370LFUF2	(2) x HBU-2030	(2) x 5	(2) x 2750
	60	45	SJ700-450LFUF2	(2) x HBU-2030	(2) x 4	(2) x 3200
	75	55	SJ700-550LFUF2	(3) x HBU-2030	(3) x 5	(3) x 2750
460 Volts	1	1	WJ200-007HF	INTERNAL	500	150
	2	2	WJ200-015HF	INTERNAL	250	250
	3	2	WJ200-022HF	INTERNAL	175	350
	5	4	WJ200-040HF	INTERNAL	100	600
	7.5	6	WJ200-055HF	INTERNAL	100	600
	10	8	WJ200-075HF	INTERNAL	70	800
	15	11	SJ700-110HFUF2	INTERNAL	35	1800
	20	15	SJ700-150HFUF2	INTERNAL	26	2200
	25	19	SJ700-185HFUF2	INTERNAL	26	2200
	30	22	SJ700-220HFUF2	INTERNAL	21	2700
	40	30	SJ700-300HFUF2	HBU-4045	13	4500
	50	37	SJ700-370HFUF2	HBU-4045	11	5500
	60	45	SJ700-450HFUF2	(2) x HBU-4030	(2) x 18	(2) x 3200
	75	55	SJ700-550HFUF2	(2) x HBU-4045	(2) x 13	(2) x 4500
	100	75	SJ700-750HFUF2	(2) x HBU-4045	(2) x 11	(2) x 5500
	125	90	SJ700-900HFUF2	HBU-4220	4.3	13500

Service of 20 Cycles per Hour with
Average 65% Load
Typical Cycle Definition:
Raise for 30 seconds @ 65% load
Traverse for 60 seconds @ 65% load
Lower for 30 seconds @ 65% load
Raise for 30 seconds @ 10% load
Traverse for 30 seconds @ 10% load
Traverse Decel: 3 seconds/150% braking torque

NOTE: Cells highlighted in
YELLOW signify MULTIPLE
DB units and MULTIPLE
resistors. ONE resistor is
required for EACH DB unit.

Resistors shown are TYPICAL values based on the CMAA Class definition.

TRAVERSE

CMAA CRANE CLASS E

HITACHI
Inspire the Next

				RESISTOR VALUES	
	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS WATTS
230 Volts	1	0.7	WJ200-007SF	INTERNAL	125 100
	2	1.5	WJ200-015SF	INTERNAL	50 400
	3	2.2	WJ200-022SF	INTERNAL	35 400
	5	3.7	WJ200-037LF	INTERNAL	35 400
	7.5	5.5	WJ200-055LF	INTERNAL	17 800
	10	7.5	WJ200-075LF	INTERNAL	17 800
	15	11	SJ700-110LFUF2	INTERNAL	10 2000
	20	15	SJ700-150LFUF2	INTERNAL	8 1600
	25	18.5	SJ700-185LFUF2	INTERNAL	8 1600
	30	22	SJ700-220LFUF2	INTERNAL	5 2750
	40	30	SJ700-300LFUF2	(2) x HBU-2030	(2) x 6 (2) x 2200
	50	37	SJ700-370LFUF2	(2) x HBU-2030	(2) x 4 (4) x 3200
	60	45	SJ700-450LFUF2	(3) x HBU-2030	(3) x 6 (3) x 2200
	75	55	SJ700-550LFUF2	(3) x HBU-2030	(3) x 4 (3) x 3200
460 Volts	1	0.7	WJ200-007HF	INTERNAL	500 150
	2	1.5	WJ200-015HF	INTERNAL	250 250
	3	2.2	WJ200-022HF	INTERNAL	175 350
	5	4	WJ200-040HF	INTERNAL	100 600
	7.5	5.5	WJ200-055HF	INTERNAL	100 600
	10	7.5	WJ200-075HF	INTERNAL	70 800
	15	11	SJ700-110HFUF2	INTERNAL	35 1800
	20	15	SJ700-150HFUF2	INTERNAL	26 2200
	25	18.5	SJ700-185HFUF2	INTERNAL	23 2800
	30	22	SJ700-220HFUF2	INTERNAL	21 2700
	40	30	SJ700-300HFUF2	HBU-4045	13 4500
	50	37	SJ700-370HFUF2	HBU-4045	11 5500
	60	45	SJ700-450HFUF2	(2) x HBU-4030	(2) x 17 (2) x 4000
	75	55	SJ700-550HFUF2	(2) x HBU-4045	(2) x 13 (2) x 4500
	100	75	SJ700-750HFUF2	(2) x HBU-4045	(2) x 11 (2) x 5500
	125	90	SJ700-900HFUF2	HBU-4220	4.3 13500

Service of 25 Cycles per Hour with
Average 100% Load
Typical Cycle Definition:
Raise for 24 seconds @ 100% load
Traverse for 24 seconds @ 100% load
Lower for 24 seconds @ 10% load
Raise for 24 seconds @ 10% load
Traverse for 24 seconds @ 10% load
Traverse Decel: 3 seconds/160% braking torque

NOTE: Cells highlighted in YELLOW signify MULTIPLE DB units and MULTIPLE resistors. ONE resistor is required for EACH DB unit.

Resistors shown are TYPICAL values based on the CMAA Class definition.

TRAVERSE

CMAA CRANE CLASS F

HITACHI
Inspire the Next

				RESISTOR VALUES	
	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS WATTS
230 Volts	1	0.7	WJ200-007SF	INTERNAL	75 300
	2	1.5	WJ200-015SF	INTERNAL	50 400
	3	2.2	WJ200-022SF	INTERNAL	35 400
	5	3.7	WJ200-037LF	INTERNAL	35 400
	7.5	5.5	WJ200-055LF	INTERNAL	17 800
	10	7.5	WJ200-075LF	INTERNAL	17 800
	15	11	SJ700-110LFUF2	HBU-2030	6 2200
	20	15	SJ700-150LFUF2	HBU-2030	5 2750
	25	18.5	SJ700-185LFUF2	HBU-2030	5 2750
	30	22	SJ700-220LFUF2	(2) x HBU-2015	(2) x 8 (2) x 1600
	40	30	SJ700-300LFUF2	(2) x HBU-2030	(2) x 5 (2) x 2750
	50	37	SJ700-370LFUF2	(2) x HBU-2030	(2) x 4 (2) x 3200
	60	45	SJ700-450LFUF2	(3) x HBU-2030	(3) x 5 (3) x 2750
	75	55	SJ700-550LFUF2	(3) x HBU-2030	(3) x 4 (3) x 3200
460 Volts	1	0.7	WJ200-007HF	INTERNAL	500 150
	2	1.5	WJ200-015HF	INTERNAL	250 250
	3	2.2	WJ200-022HF	INTERNAL	175 350
	5	4	WJ200-040HF	INTERNAL	100 600
	7.5	5.5	WJ200-055HF	INTERNAL	100 600
	10	7.5	WJ200-075HF	INTERNAL	70 800
	15	11	SJ700-110HFUF2	HBU-4030	32 2750
	20	15	SJ700-150HFUF2	HBU-4030	21 2700
	25	18.5	SJ700-185HFUF2	HBU-4030	18 3200
	30	22	SJ700-220HFUF2	HBU-4030	18 3200
	40	30	SJ700-300HFUF2	HBU-4045	11 5500
	50	37	SJ700-370HFUF2	(2) x HBU-4030	(2) x 18 (2) x 3200
	60	45	SJ700-450HFUF2	(2) x HBU-4030	(2) x 17 (2) x 4000
	75	55	SJ700-550HFUF2	(2) x HBU-4045	(2) x 11 (2) x 5500
	100	75	SJ700-750HFUF2	HBU-4220	4.3 13500
	125	90	SJ700-900HFUF2	HBU-4220	3.7 15000

Continuous Severe Service
With Loads Near Rated Capacity
Typical Cycle Definition:
Raise 100% load
Traverse @ 100% load
Lower @ 100% load
Raise @ 100% load
Traverse @ 100% load
Traverse Decel: 2 seconds/175% braking torque

NOTE: Cells highlighted in YELLOW signify MULTIPLE DB units and MULTIPLE resistors. ONE resistor is required for EACH DB unit.

Resistors shown are TYPICAL values based on the CMAA Class definition.

HOIST - OPEN LOOP
No Load Brake
 CMAA CRANE CLASS A, B & C
 HMI HOIST CLASS H1, H2, & H3



					RESISTOR
230 Volts	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS
	1	0.7	WJ200-007SF	INTERNAL	250
	2	1.5	WJ200-015SF	INTERNAL	175
	3	2.2	WJ200-022SF	INTERNAL	125
	5	3.7	WJ200-037LF	INTERNAL	70
	7.5	5.5	WJ200-055LF	INTERNAL	50
	10	7.5	WJ200-075LF	INTERNAL	35
	15	11	SJ700-110LFUF2	INTERNAL	23
	20	15	SJ700-150LFUF2	INTERNAL	17
	25	18.5	SJ700-185LFUF2	INTERNAL	14
	30	22	SJ700-220LFUF2	INTERNAL	12
	40	30	SJ700-300LFUF2	HBU-2015	9
	50	37	SJ700-370LFUF2	HBU-2015	8
	60	45	SJ700-450LFUF2	HBU-2030	6
	75	55	SJ700-550LFUF2	HBU-2030	5
460 Volts	1	0.7	WJ200-007HF	INTERNAL	700
	2	1.5	WJ200-015HF	INTERNAL	700
	3	2.2	WJ200-022HF	INTERNAL	500
	5	4	WJ200-040HF	INTERNAL	300
	7.5	5.5	WJ200-055HF	INTERNAL	200
	10	7.5	WJ200-075HF	INTERNAL	100
	15	11	SJ700-110HFUF2	INTERNAL	100
	20	15	SJ700-150HFUF2	INTERNAL	70
	25	18.5	SJ700-185HFUF2	INTERNAL	70
	30	22	SJ700-220HFUF2	INTERNAL	50
	40	30	SJ700-300HFUF2	HBU-4015	35
	50	37	SJ700-370HFUF2	HBU-4015	35
	60	45	SJ700-450HFUF2	HBU-4015	26
	75	55	SJ700-550HFUF2	HBU-4030	21
	100	75	SJ700-750HFUF2	HBU-4030	15.5
	125	90	SJ700-900HFUF2	HBU-4045	13
	150	110	SJ700-1100HFUF2	HBU-4045	10.5
	200	150	SJ700-1500HFUF2	(2) x HBU-4030	(2) x 15.5

Service of 10 Cycles per Hour with Average 50% Load
Typical Cycle Definition:
 Raise for 30 seconds @ 50% load
 Traverse for 60 seconds @ 50% load
 Lower for 30 seconds @ 50% load
 Raise for 30 seconds @ 10% load
 Traverse for 30 seconds @ 10% load
 Traverse Decel: 5 seconds/120% braking torque

NOTE: Cells highlighted in YELLOW signify MULTIPLE DB units and MULTIPLE resistors. ONE resistor is required for EACH DB unit.

IMPORTANT: For non-load brake hoists, if no encoder is used (open-loop), over speed protection must be provided by mechanical means.

NOTES:

- 1) Resistors shown are TYPICAL values based on the CMAA Class definition. Your specific hoist design and usage profile may dictate different values.
- 2) These selection tables assume a non-load brake hoist.
- 3) Chart is based on OPEN loop drives. For closed loop, refer to separate chart.

HOIST - CLOSED LOOP**No Load Brake**

CMAA CRANE CLASS A, B & C
HMI HOIST CLASS H1, H2, & H3



					RESISTOR
230 Volts	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS
	1	0.7	SJ700-007NFUF2	INTERNAL	250
	2	1.5	SJ700-015NFUF2	INTERNAL	175
	3	2.2	SJ700-022NFUF2	INTERNAL	125
	5	3.7	SJ700-037LFUF2	INTERNAL	70
	7.5	5.5	SJ700-055LFUF2	INTERNAL	50
	10	7.5	SJ700-075LFUF2	INTERNAL	35
	15	11	SJ700-110LFUF2	INTERNAL	23
	20	15	SJ700-150LFUF2	INTERNAL	17
	25	18.5	SJ700-185LFUF2	INTERNAL	14
	30	22	SJ700-220LFUF2	INTERNAL	12
	40	30	SJ700-300LFUF2	HBU-2015	9
	50	37	SJ700-370LFUF2	HBU-2015	8
	60	45	SJ700-450LFUF2	HBU-2030	6
	75	55	SJ700-550LFUF2	HBU-2030	5
460 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	700
	2	1.5	SJ700-015HFUF2	INTERNAL	700
	3	2.2	SJ700-022HFUF2	INTERNAL	500
	5	4	SJ700-040HFUF2	INTERNAL	300
	7.5	5.5	SJ700-055HFUF2	INTERNAL	200
	10	7.5	SJ700-075HFUF2	INTERNAL	100
	15	11	SJ700-110HFUF2	INTERNAL	100
	20	15	SJ700-150HFUF2	INTERNAL	70
	25	18.5	SJ700-185HFUF2	INTERNAL	70
	30	22	SJ700-220HFUF2	INTERNAL	50
	40	30	SJ700-300HFUF2	HBU-4015	35
	50	37	SJ700-370HFUF2	HBU-4015	35
	60	45	SJ700-450HFUF2	HBU-4015	26
	75	55	SJ700-550HFUF2	HBU-4030	21
	100	75	SJ700-750HFUF2	HBU-4030	15.5
	125	90	SJ700-900HFUF2	HBU-4045	13
	150	110	SJ700-1100HFUF2	HBU-4045	10.5
	200	150	SJ700-1500HFUF2	(2) x HBU-4030	(2) x 15.5

Service of 10 Cycles per Hour with
Average 50% Load
Typical Cycle Definition:
Raise for 30 seconds @ 50% load
Traverse for 60 seconds @ 50% load
Lower for 30 seconds @ 50% load
Raise for 30 seconds @ 10% load
Traverse for 30 seconds @ 10% load
Traverse Decel: 5 seconds/120% braking torque

**NOTE: Cells highlighted in
YELLOW signify MULTIPLE
DB units and MULTIPLE
resistors. ONE resistor is
required for EACH DB unit.**

NOTES:

- 1) Resistors shown are TYPICAL values based on the CMAA Class definition. Your specific hoist design and usage profile may dictate different values.
- 2) These selection tables assume a non-load brake hoist.
- 3) Chart is based on CLOSED loop drives. For OPEN loop, refer to separate chart

HOIST - CLOSED LOOP
CMAA CRANE CLASS D
HMI HOIST CLASS H4



	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	RESISTOR	VALUES
					OHMS	WATTS
230 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	250	250
	2	1.5	SJ700-015HFUF2	INTERNAL	125	250
	3	2.2	SJ700-022HFUF2	INTERNAL	70	800
	5	3.7	SJ700-040HFUF2	INTERNAL	50	800
	7.5	5.5	SJ700-055HFUF2	INTERNAL	35	1000
	10	7.5	SJ700-075HFUF2	INTERNAL	23	1400
	15	11	SJ700-110LFUF2	INTERNAL	17	2400
	20	15	SJ700-150LFUF2	INTERNAL	14	2400
	25	18.5	SJ700-185LFUF2	INTERNAL	12	2700
	30	22	SJ700-220LFUF2	INTERNAL	9	3600
	40	30	SJ700-300LFUF2	HBU-2030	8	4000
	50	37	SJ700-370LFUF2	HBU-2030	6	5400
	60	45	SJ700-450LFUF2	HBU-2030	5	6600
	75	55	SJ700-550LFUF2	(2) x HBU-2015	(2) x 8	(2) x 4000
460 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	500	300
	2	1.5	SJ700-015HFUF2	INTERNAL	500	300
	3	2.2	SJ700-022HFUF2	INTERNAL	300	500
	5	4	SJ700-040HFUF2	INTERNAL	200	800
	7.5	5.5	SJ700-055HFUF2	INTERNAL	150	1200
	10	7.5	SJ700-075HFUF2	INTERNAL	120	1600
	15	11	SJ700-110HFUF2	INTERNAL	70	2000
	20	15	SJ700-150HFUF2	INTERNAL	50	3000
	25	18.5	SJ700-185HFUF2	INTERNAL	50	3000
	30	22	SJ700-220HFUF2	INTERNAL	35	4000
	40	30	SJ700-300HFUF2	HBU-4015	26	5600
	50	37	SJ700-370HFUF2	HBU-4030	26	5600
	60	45	SJ700-450HFUF2	HBU-4030	21	7000
	75	55	SJ700-550HFUF2	HBU-4030	15.5	9000
	100	75	SJ700-750HFUF2	HBU-4045	13	11000
	125	90	SJ700-900HFUF2	HBU-4045	10	17500
	150	110	SJ700-1100HFUF2	(2) x HBU-4045	(2) x 15.5	(2) x 9000
	200	150	SJ700-1500HFUF2	(2) x HBU-4045	(2) x 13	(2) x 11000

Service of 20 Cycles per Hour with
Average 65% Load
Typical Cycle Definition:
Raise for 30 seconds @ 65% load
Traverse for 60 seconds @ 65% load
Lower for 30 seconds @ 65% load
Raise for 30 seconds @ 10% load
Traverse for 30 seconds @ 10% load
Traverse Decel: 3 seconds/150% braking torque

NOTE: Cells highlighted in
YELLOW signify MULTIPLE
DB units and MULTIPLE
resistors. ONE resistor is
required for EACH DB unit.

NOTES:

- 1) Resistors shown are TYPICAL values based on the CMAA Class definition. Your specific hoist design and usage profile may dictate different values.
- 2) These selection tables assume a non-load brake hoist.
- 3) Chart is based on CLOSED loop drives.

HOIST - CLOSED LOOP**No Load Brake****CMAA CRANE CLASS E****HMI HOIST CLASS H5****HITACHI**
Inspire the Next

	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	RESISTOR	VALUES
					OHMS	WATTS
230 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	175	350
	2	1.5	SJ700-015HFUF2	INTERNAL	85	400
	3	2.2	SJ700-022HFUF2	INTERNAL	50	600
	5	3.7	SJ700-040HFUF2	HBU2015	35	1000
	7.5	5.5	SJ700-055HFUF2	HBU2015	23	1400
	10	7.5	SJ700-075HFUF2	HBU2015	17	1800
	15	11	SJ700-110LFUF2	HBU2015	12	2700
	20	15	SJ700-150LFUF2	HBU-2030	9	3600
	25	18.5	SJ700-185LFUF2	HBU-2030	8	4000
	30	22	SJ700-220LFUF2	HBU-2030	6	5400
	40	30	SJ700-300LFUF2	(2) x HBU-2015	(2) x 9	(2) x 3600
	50	37	SJ700-370LFUF2	(2) x HBU-2030	(2) x 6	(2) x 5400
	60	45	SJ700-450LFUF2	(2) x HBU-2030	(2) x 6	(2) x 5400
	75	55	SJ700-550LFUF2	(2) x HBU-2030	(2) x 5	(2) x 6600
460 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	700.0	200
	2	1.5	SJ700-015HFUF2	INTERNAL	400.0	400
	3	2.2	SJ700-022HFUF2	INTERNAL	250.0	600
	5	4	SJ700-040HFUF2	INTERNAL	150	1200
	7.5	5.5	SJ700-055HFUF2	HBU-4015	100	1500
	10	7.5	SJ700-075HFUF2	HBU-4015	70	2000
	15	11	SJ700-110HFUF2	HBU-4015	50	3000
	20	15	SJ700-150HFUF2	HBU-4015	35	4000
	25	18.5	SJ700-185HFUF2	HBU-4015	35	4000
	30	22	SJ700-220HFUF2	HBU-4030	26	5600
	40	30	SJ700-300HFUF2	HBU-4030	21	7000
	50	37	SJ700-370HFUF2	HBU-4045	15.5	9000
	60	45	SJ700-450HFUF2	HBU-4045	13	11000
	75	55	SJ700-550HFUF2	(2) x HBU-4045	(2) x 21	(2) x 7000
	100	75	SJ700-750HFUF2	(2) x HBU-4045	(2) x 15.5	(2) x 9000
	125	90	SJ700-900HFUF2	(2) x HBU-4045	(2) x 13	(2) x 11000
	150	110	SJ700-1100HFUF2	(3) x HBU-4045	(3) x 15.5	(3) x 9000
	200	150	SJ700-1500HFUF2	(3) x HBU-4045	(3) x 13	(3) x 11000

**Service of 25 Cycles per Hour with
Average 100% Load**
Typical Cycle Definition:
 Raise for 24 seconds @ 100% load
 Traverse for 24 seconds @ 100% load
 Lower for 24 seconds @ 10% load
 Raise for 24 seconds @ 10% load
 Traverse for 24 seconds @ 10% load
 Traverse Decel: 3 seconds/160% braking torque

**NOTE: Cells highlighted in
YELLOW signify MULTIPLE DB
units and MULTIPLE resistors.
ONE resistor is required for
EACH DB unit.**

NOTES:

- 1) Resistors shown are TYPICAL values based on the CMAA Class definition. Your specific hoist design and usage profile may dictate different values.
- 2) These selection tables assume a non-load brake hoist.
- 3) Chart is based on CLOSED loop drives.

HOIST - CLOSED LOOP
No Load Brake
CMAA CRANE CLASS F



					RESISTOR
	MOTOR HP	kW	INVERTER MODEL	DB UNIT MODEL	OHMS
230 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	175
	2	1.5	SJ700-015HFUF2	INTERNAL	90
	3	2.2	SJ700-022HFUF2	INTERNAL	60
	5	3.7	SJ700-040HFUF2	INTERNAL	35
	7.5	5.5	SJ700-055HFUF2	INTERNAL	23
	10	7.5	SJ700-075HFUF2	INTERNAL	17
	15	11	SJ700-110LFUF2	INTERNAL	13
	20	15	SJ700-150LFUF2	INTERNAL	9
	25	18.5	SJ700-185LFUF2	INTERNAL	7
	30	22	SJ700-220LFUF2	INTERNAL	6
	40	30	SJ700-300LFUF2	HBU-2030	4.3
	50	37	SJ700-370LFUF2	(2) x HBU-2015	(2) x 7
	60	45	SJ700-450LFUF2	(2) x HBU-2030	(2) x 6
	75	55	SJ700-550LFUF2	(2) x HBU-2030	(2) x 4.3
460 Volts	1	0.7	SJ700-007HFUF2	INTERNAL	700
	2	1.5	SJ700-015HFUF2	INTERNAL	375
	3	2.2	SJ700-022HFUF2	INTERNAL	250
	5	4	SJ700-040HFUF2	INTERNAL	150
	7.5	5.5	SJ700-055HFUF2	INTERNAL	100
	10	7.5	SJ700-075HFUF2	INTERNAL	75
	15	11	SJ700-110HFUF2	INTERNAL	50
	20	15	SJ700-150HFUF2	INTERNAL	38
	25	18.5	SJ700-185HFUF2	INTERNAL	32
	30	22	SJ700-220HFUF2	INTERNAL	26
	40	30	SJ700-300HFUF2	HBU-4030	19
	50	37	SJ700-370HFUF2	HBU-4030	15.6
	60	45	SJ700-450HFUF2	HBU-4045	12.8
	75	55	SJ700-550HFUF2	HBU-4045	10.5
	100	75	SJ700-750HFUF2	(2) x HBU-4030	(2) x 15.6
	125	90	SJ700-900HFUF2	(2) x HBU-4045	(2) x 12.8
	150	110	SJ700-1100HFUF2	(2) x HBU-4220	(2) x 10.5
	200	150	SJ700-1500HFUF2	(3) x HBU-4220	(3) x 12.8

Continuous Severe Service
With Loads Near Rated Capacity
Typical Cycle Definition:
 Raise 100% load
 Traverse @ 100% load
 Lower @ 100% load
 Raise @ 100% load
 Traverse @ 100% load
 Traverse Decel: 2 seconds/175% braking torque

NOTE: Cells highlighted in YELLOW signify MULTIPLE DB units and MULTIPLE resistors. ONE resistor is required for EACH DB unit.

NOTES:

- 1) Resistors shown are TYPICAL values based on the CMAA Class definition. Your specific hoist design and usage profile may dictate different values.
- 2) These selection tables assume a non-load brake hoist.
- 3) Chart is based on CLOSED loop drives.

HBU Series Braking Unit Specifications

HBU-	Peak (A)	Continuous (A)
2015	50	15
2030	90	30
4015	25	8
4030	50	15
4045	75	25
4220	250	80