MOTOR DATA SCHEDULE 460 VOLT 3 PHASE

HORSEPOWER	FULL LOAD AMPS	FEEDER	GROUND	CONDUIT	OVERCURRENT PROTECTION DEVICE (AMPS)	STARTER (NEMA SIZE)	DISCONNECT (AMPS)
0.5	1.00	3#12 AWG.	1#12 AWG.	3/4"	15	00	30
0.75	1.40	3#12 AWG.	1#12 AWG.	3/4"	15	00	30
1	1.80	3#12 AWG.	1#12 AWG.	3/4"	15	00	30
1.5	2.60	3#12 AWG.	1#12 AWG.	3/4"	15	00	30
2	3.40	3#12 AWG.	1#12 AWG.	3/4"	15	00	30
3	4.80	3#12 AWG.	1#12 AWG.	3/4"	15	0	30
5	7.60	3#12 AWG.	1#12 AWG.	3/4"	15	0	30
7.5	11.00	3#12 AWG.	1#12 AWG.	3/4"	20	1	30
10	14.00	3#10 AWG.	1#10 AWG.	3/4"	30	1	30
15	21.00	3#8 AWG.	1#10 AWG.	3/4"	40	2	30
20	27.00	3#8 AWG.	1#10 AWG.	3/4"	50	2	60
25	34.00	3#6 AWG.	1#10 AWG.	1"	60	2	60
30	40.00	3#6 AWG.	1#8 AWG.	1"	80	3	60
40	52.00	3#4 AWG.	1#8 AWG.	1"	100	3	100
50	65.00	3#3 AWG.	1#6 AWG.	1 1/4"	125	3	100
60	77.00	3#1 AWG.	1#6 AWG.	1 1/2"	150	4	100
75	96.00	3#1 AWG.	1#6 AWG.	1 1/2"	175	4	200
100	124.00	3#2/0 AWG.	1#4 AWG.	2"	225	4	200
125	156.00	3#3/0 AWG.	1#4 AWG.	2"	300	5	200
150	180.00	3#4/0 AWG.	1#4 AWG.	2 1/2"	300	5	400
200	248.00	3#350 KCMIL	1#3 AWG.	3"	400	5	400

1. THE ABOVE TABLE IS BASED ON NEC REQUIREMENTS FOR THREE PHASE, SINGLE SPEED, NEMA CODE B, SQUIRRELL CAGE MOTORS WITH FULL VOLTAGE STARTING.
2. OVERCURRENT PROTECTION DEVICE RATING ARE BASED ON INVERSE TIME CIRCUIT CIRCUIT BREAKERS.
3. UNFUSED DISCONNECTS ARE 600 VAC, HEAVY DUTY, AND H.P. RATED
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF NEMA CODE B MOTORS IN HVAC AND PLUMBING EQUIPMENT.
5. THIS TABLE IS NOT APPLICABLE FOR SPECIAL USE MOTORS OR PACKAGE SETS.

TRANSFER SWITCH SCHEDULE

DESIGNATION	BYPASS ISOLATION	VOLTAGE	POLES	AMP RATING	W.S.R. (KAIC)	LOCATION	REMARKS
ATS-CR1	YES	480/277	4	600		CHARLES ST.	
ATS-CR2	YES	480/277	4	600		CHARLES ST.	
ATS-LS1	YES	480/277	4	400		CHARLES ST.	
ATS-EL1	YES	480	3	800		CHARLES ST.	
ATS-EQ1	YES	480	3	800		CHARLES ST.	
ATS-EQ2	YES	480	3	800		CHARLES ST.	
ATS-LS	YES	480/277	4	150		RICHARDS BUILDING	
ATS-CR	YES	480/277	4	400		RICHARDS BUILDING	
ATS-EQ	YES	480	3	800		RICHARDS BUILDING	

THREE PHASE FEEDER LEGEND FOR COPPER CONDUCTORS

No.	AMP RATING	THREE WIRE WITH GROUND		No.	FOUR WIRE WITH GROUND	
		CONDUCTORS	CONDUIT		CONDUCTORS	CONDUIT
1	15	3#12 & 1#12 G	3/4"	1N	4#12 & 1#12 G	3/4"
2	20	3#12 & 1#12 G	3/4"	2N	4#12 & 1#12 G	3/4"
3	30	3#10 & 1#10 G	3/4"	3N	4#08 & 1#10 G	1"
4	40	3#8 & 1#10 G	3/4"	4N	4#6 & 1#10 G	1-1/2"
5	50	3#6 & 1#10 G	1"	5N	4#4 & 1#10 G	1-1/2"
6	60	3#4 & 1#10 G	1-1/2"	6N	4#2 & 1#10 G	1-1/2"
7	70	3#4 & 1#8 G	1-1/2"	7N	4#2 & 1#8 G	1-1/2"
8	80	3#2 & 1#8 G	1-1/2"	8N	4#1 & 1#8 G	2"
9	90	3#2 & 1#6 G	1-1/2"	9N	4#1/0 & 1#8 G	2"
10	100	3#1 & 1#6 G	1-1/2"	10N	4#1/0 & 1#6 G	2"
11	125	3#1/0 & 1#6 G	1-1/2"	11N	4#2/0 & 1#6 G	2"
12	150	3#1/0 & 1#6 G	1-1/2"	12N	4#3/0 & 1#6 G	2-1/2"
13	175	3#2/0 & 1#6 G	2"	13N	4#4/0 & 1#6 G	3"
14	200	3#3/0 & 1#6 G	2"	14N	4-350KCM & 1#6 G	3"
15	225	3#4/0 & 1#4 G	2-1/2"	15N	4-350KCM & 1#4 G	3"
16	250	3-350KCM & 1#4 G	3"	16N	4-500KCM & 1#4 G	3-1/2"
17	300	3-350KCM & 1#4 G	3"	17N	4-500KCM & 1#4 G	3-1/2"
18	350	3-500KCM & 1#2 G	3"	18N	8#4/0 & 2#2 G	(2)3"
19	400	3-600KCM & 1#2 G	3-1/2"	19N	8-350KCM & 2#2 G	(2)3-1/2"
20	500	6-350KCM & 2#2 G	(2)3"	20N	8-500KCM & 2#2 G	(2)3-1/2"
21	600	6-350KCM & 2#1 G	(2)3"	21N	8-500KCM & 2#1 G	(2)3-1/2"
22	800	6-600KCM & 2#1/0 G	(2)3-1/2"	22N	12-500KCM & 3#1/0 G	(3)3-1/2"
23	1000	9-500KCM & 3#2/0 G	(3)3"	23N	12-600KCM & 3#2/0 G	(3)4"
24	1200	9-600KCM & 3#3/0 G	(3)3"	24N	16-500KCM & 4#3/0 G	(4)3-1/2"

480V-120/208V 3 PHASE DRY-TYPE TRANSFORMER FEEDER OCPD SCHEDULE

	PRIMARY		SECONDARY	
kVA	OCPD	FEEDER	OCPD	FEEDER
15	30	3	60	6N
30	60	5	100	10N
45	80	6	150	12N
75	150	12	250	16N
112.5	200	14	400	19N
150	300	17	600	21N
225	400	19	800	22N
300	600	21	1000	23N

NOTES:
1. THIS SHEDULE IS APPLICABLE TO 115 AND 150 DEG. C RISE TRANSFORMERS ONLY.
2. THIS SCHEDULE IS APPLICABLE TRANSFORMERS WITH STANDARD ANSI IMPEDANCES ONLY.

LIGHTING AND POWER PANELBOARD SCHEDULE

PANEL NAME	MAINS MLO	MAINS MCB	VOLTAGE	PHASE	WIRE	TOTAL POLES	CIRCUIT BREAKERS AND SPARE 15 GFCI 1	20 1	20 2	20 3	25 3	30 1	30 2	30 3	40 1	50 2	60 3	70 3	150 3	SINGLE POLE SPACES	INTER CAPACITY SYM KILO-AMPS	MOUNTING	NOTES
CR2S1		60	208/120	3	4	30															30	SURFACE	
LS2S1		60	208/120	3	4	30															30	SURFACE	
EQ2S1		60	208/120	3	3	30															30	SURFACE	
N2S1		60	208/120	3	4	30															30	SURFACE	
CR4BN1		150	480/277	3	4	42															42	SURFACE	
C42BN1		225	208/120	3	4	42															30	SURFACE	
L54BN1		60	480/277	3	4	42															42	SURFACE	
L52BN1		60	208/120	3	4	42															30	SURFACE	
N4BN1		150	480/120	3	4	42															42	SURFACE	
N2BN1		225	208/120	3	4	42															30	SURFACE	
CR4BS1		150	480/120	3	4	42															42	SURFACE	
CR2BS1		225	480/277	3	4	42															30	SURFACE	
L54BS1		60	480/277	3	4	42															42	SURFACE	
L52BS1		60	208/120	3	4	42															30	SURFACE	
N4BS1		150	480/120	3	4	42															42	SURFACE	
N2BS1		225	208/120	3	4	42															30	SURFACE	
CR4GN1		150	480/277	3	4	42															42	SURFACE	
CR2GN1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54GN1		60	480/277	3	4	42															42	SURFACE	
L52GN1		60	208/120	3	4	42															30	SURFACE	
N4GN1		150	480/277	3	4	42															42	SURFACE	
N2GN1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4GS1		150	480/277	3	4	42															42	SURFACE	
CR2GS1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54GS1		60	480/277	3	4	42															42	SURFACE	
L52GS1		60	208/120	3	4	42															30	SURFACE	
N4GS1		150	480/277	3	4	42															42	SURFACE	
N2GS1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4N2N1		150	480/277	3	4	42															42	SURFACE	
CR2N2N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54N2N1		60	480/277	3	4	42															42	SURFACE	
L52N2N1		60	208/120	3	4	42															30	SURFACE	
N4N2N1		150	480/277	3	4	42															42	SURFACE	
N2N2N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4N2S1		150	480/277	3	4	42															42	SURFACE	
CR2N2S1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54N2S1		60	480/277	3	4	42															42	SURFACE	
L52N2S1		60	208/120	3	4	42															30	SURFACE	
N4N2S1		150	480/277	3	4	42															42	SURFACE	
N2N2S1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4N3N1		150	480/277	3	4	42															42	SURFACE	
C42N3N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54N3N1		60	480/277	3	4	42															42	SURFACE	
L52N3N1		175	208/120	3	4	42															30	SURFACE	
N4N3N1		150	480/277	3	4	42															42	SURFACE	
N2N3N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4S51		150	480/277	3	4	42															42	SURFACE	
CR2S51		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54S51		60	480/277	3	4	42															42	SURFACE	
L52S51		60	208/120	3	4	42															30	SURFACE	
N4S51		150	480/277	3	4	42															42	SURFACE	
N2S51		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4N4N1		150	480/277	3	4	42															42	SURFACE	
CR2N4N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54N4N1		60	480/277	3	4	42															42	SURFACE	
L52N4N1		60	208/120	3	4	42															30	SURFACE	
N4N4N1		150	480/277	3	4	42															42	SURFACE	
N2N4N1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4N4S1		150	480/277	3	4	42															42	SURFACE	
CR2N4S1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
L54N4S1		60	480/277	3	4	42															42	SURFACE	
L52N4S1		60	208/120	3	4	42															30	SURFACE	
N4N4S1		150	480/120	3	4	42															42	SURFACE	
N2N4S1		225	208/120	3	4	84															30	SURFACE	NOTE 1.
CR4S51		60	480/120	3	4	42															42	SURFACE	
CR2S51		110	208/120	3	4	42															42	SURFACE	
N4S51		60	480/120	3	4	42															42	SURFACE	
N2S51		110	208/120	3	4	42															42	SURFACE	

NOTES:
1. PROVIDE PANEL WITH FEED-THRU LUGS TO ACCOMMODATE ADDITIONAL TUBS AS INDICATED ON FLOOR PLANS.

NORMAL BRANCH MCC SCHEDULE

VOLTAGE: PHASE: WIRE: MAIN LUGS: INTERRUPTING CAPACITY:
NAME MAIN BREAKER:

SECTION/ UNIT LOCATION	NAME PLATE IDENTIFICATION	STARTER CLASS	NEMA SIZE	CB TRIP/ FUSE CLIPS	HP RATING	KW RATING	AUXILIARY CONTACTS NO	NC	CONTROL DEVICES PUSHBUTTON STAPT-STOP	FWD-REV-STOP	FAST-SLOW-STOP	SELECTOR SWITCHES HAND-OFF-AUTO	ON-OFF	FWD-OFF-REV	FAST-OFF-SLOW	INDICATING LIGHTS GREEN (STOPPED)	RED (RUN/REV/FAST)	AMBER (REV/SLOW)	PUSH-TO-TEST