

Production

8

7

6

5

4

3

2

1

SUBJECT TO EAR, ECCN EAR99 AND RELATED EXPORT CONTROL RESTRICTIONS

NOTES:

1

CUSTOMER TO FURNISH FUSED OR CIRCUIT BREAKER DISCONNECT PER LOCAL CODES.

2

REMOVE JUMPER FOR AUXILIARY E-STOP STRING DEVICES.

3

BELDEN TYPE 9842 4 CONDUCTOR 2 TWISTED PAIR WITH SHIELD OR EQUIVALENT TO MATCHING TERMINALS ON NEXT COMPRESSOR FOR SEQUENCING.

4

SEE TRANSFORMER CONNECTION TABLE FOR PROPER VOLTAGE CONNECTION. TRANSFORMER FUSING ON CLIPS LOCATED ON TRANSFORMER X1/XF INTERNALLY JUMPED. SEE TRANSFORMER FUSE CHART FOR SIZING.

5

REFER TO SEQUENCING AND PROTOCOL MANUAL.

6

SEE WIRING CHART FOR POWER AND MOTOR WIRING SIZE.

7

FAN OPTIONAL: NOT FURNISHED ON WATER COOLED WITHOUT CANOPY.

8

SET SWITCHES ON SVDR:
SW1 = 0
SW2 = 4
SW3 = ALL TO 'ON' POSITION

9

JUMPERS INSTALLED ON J41, J44, AND J47.
REFER TO SEQUENCING AND PROTOCOL MANUAL FOR REMOVAL CRITERIA.

10

REFER TO WD 1001-1167 FOR STS 1.0.

11

REMOVE JUMPER WHEN REMOTE STOP INSTALLED.

HEATER OPTIONS

NOTE:
PROVIDE GROUND FAULT PROTECTION ON SUPPLY OF HEATING DEVICES PER LOCAL CODES

8

SVDR SPR VLV STEPPER MOTOR

120VAC-24VDC

4M
STEPPER MOTOR

02250261-688 TRANSFORMER CONNECTIONS

PRIMARY			
VOLTS	SUPPLIED JUMPERS	SUPPLY LINES	INSTALL FUSE TO
220-240	NONE	2, 6	UNFUSED
440-480	NONE	2, 4	UNFUSED
550-600	NONE	2, 3	UNFUSED
220-240	3-8	1, 5	2-7, 5-8
440-480	4-8	1, 5	2-7, 5-8
550-600	8-6	1, 5	2-7, 5-8

SECONDARY			
VOLTS	SUPPLIED JUMPERS	SUPPLY LINES	INSTALL FUSE TO
110-120	NONE	2, 4	UNFUSED
90-100	NONE	2, 3	UNFUSED
110-120	NONE	1, 4	2-7
90-100	NONE	1, 3	2-7

COLOR ABBREVIATIONS

BLACK	BK
BLUE	BL
BROWN	BN
GREEN	GN
GREY	GY
ORANGE	OR
PINK	PK
RED	RD
VIOLET	VT
WHITE	WT
YELLOW	YL
GREEN/YELLOW	G/Y

TRANSFORMER FUSE CHART

VOLTAGE	PRIMARY FUSES	SECONDARY FUSE
460	3A	7A
575	3A	7A

MOTOR WIRING CHART (GGC CABLE)

MACHINE (HP)	460 V	575V
LS90 (125HP)	4 AWG	4 AWG
LS110 (150HP)	2 AWG	4 AWG
LS160 (200HP)	1/0	1/0

TB1

60 1
60 1
60 2
60 2

TB2

DIN 15
DIN 16

02250083-192 TRANSFORMER CONNECTIONS

PRIMARY		SECONDARY VOLTS		
VOLTS	TAPS	XF-X2	XF-X3	XF-X4
208	H1-H2	85	100	110
220	H1-H2	91	110	120
230	H1-H2	95	115	125
240	H1-H2	99	120	130
380	H1-H3	91	110	120
400	H1-H3	95	115	125
416	H1-H3	99	120	130
440	H1-H4	91	110	120
460	H1-H4	95	115	125
480	H1-H4	99	120	130
500	H1-H5	85	100	110
550	H1-H5	91	110	120
575	H1-H5	95	115	125
600	H1-H5	99	120	130

LEGEND

OPTIONAL COMPONENTS

CUSTOMER OPTION/PROVIDED

7 - A SH1 8 - A SH1 ON/OFF PAGE CONNECTORS

WIRE CALLOUT = WIRE NUMBER - GAUGE SIZE - WIRE COLOR
GAUGE SIZE/WIRE COLOR NOT ON WIRE TAG

XDCR POWER MONITOR

CT

POWER TERMINATIONS (LB. - IN.)

USE 75C COPPER CONDUCTORS ONLY TORQUE POWER TERMINALS PER TABLE	
14 - 10 AWG	35 LB. - IN.
8 AWG	40 LB. - IN.
6 - 2 AWG	45 LB. - IN.
1 - 3/0 AWG	50 LB. - IN.

REVISIONS

SHEET	ZONE	REV	ECO NO	DESCRIPTION	DATE	REV BY
-	-	00	604532	PRODUCTION RELEASE	2022-12-07	RDH
1	B5			ADDED TB2 TABLE.		
2	B4	01	608249	CONNECTION NAME 2T3 WAS 2T1.		
3	D5, B7			ADDED DEVICES ETHERNET, CN22, AND DEVICE J22. ADDED ROMOTE START CONNECTIONS.	2025-03-18	RDH/ARP

DESIGNED

RJHUTSON

ENGINEER

Y.SHIKUKA

STANDARDS

-

SUPERVISOR

-

MANAGER

-

DATE

2022-12-07

MATERIAL

FINISH SPEC

WEIGHT

PROD CODE

SHEET

1 OF 3

WD,
YD 120VAC AC/WC LS90-160

DWG NO

1003-0763

REV

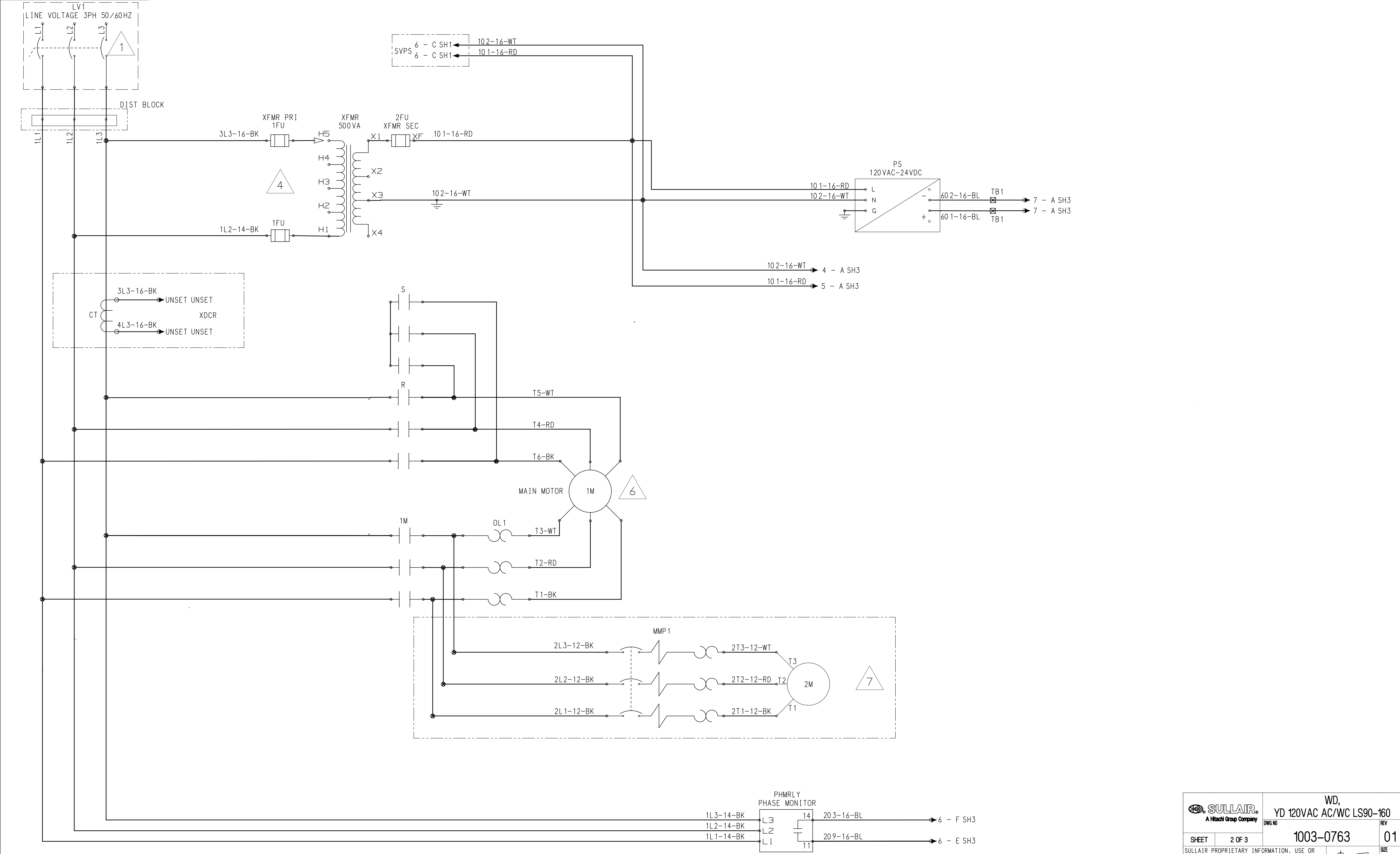
01

SIZE

D

THIRD ANGLE PROJECTION

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