



Product Information Order

A44-5210-0690

200HP,1785RPM,3PH,60HZ,447T,A44120M,TEFC

Sales Order #:

1209887000-10

Customer Name:

**SULZER PUMPS
SOLUTIONS INC**

PRELIMINARY DATA

ABB Motors and
Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number/Plant Order Number		Customer Number		Customer Order Number		P.O. Date			
1209887000-10/1188653		182848		4502008170		03/31/2022			
<i>Sold To:</i> SULZER PUMPS SOLUTIONS INC 155 Ahlstrom Wy EASLEY, SC 29640 United States				DATA PROVIDED WITH THIS TRANSMITTAL AND CERTIFICATIONS IS: ☒ PRELIMINARY, DATA FOR CUSTOMER APPROVAL: The associated documents requested on this order are submitted for approval. Please reply promptly or the order could be delayed. ☐ FINAL, APPROVED FOR CONSTRUCTION OR INSTALLATION.					
<i>Ship To:</i> SULZER PUMPS SOLUTIONS INC 155 AHLSTROM WAY EASLEY, SC 29640 United States				<i>Data Source:</i> ISSUED BY: Robin Brown 03/31/2022 Baldor-Reliance Athens					
Application General Industrial			Quantity 4.000		Frame 447T		Motor / Gen. D.S.:		
Elec Type 200 HP		Phs 3		Hertz 60		Voltage 460		Electrical Design Motor / Gen. C.D.:	
RPM 1800		Enclosure TEFC		Time CONT		Temp 40		Leads Location Conduit Box:	
Rotation Bi-directional		DC Field Excitation		Pwr Cd		Winding Type		Mounting Base F-1	
Insulation F		Mtg F-1		Drive		Bearing Ball / Ball		S F 1.00	
Bs / RI		Model Number		B L O W E E R		Motor Part #		Line Voltage PH/HZ/V	
Type		Torque		Enclosure		Insulation		Phs	
Hertz		Volts		FL Amps					

Additional Specifications:

BASIC CONFIGURATION

Partial Motor Design No
Frame Band 318
Customer Application General Industrial
Variable Frequency Drive Op Yes
Inverter Torque 10:1 Variable Torque
SF on Sine Wave Power 1.15
Division Div. 1
Hazardous Location Group Code D
Hazardous Location Group Code C
Temp Code T3C

ELECTRICAL

Ambient Minimum -25C
Starting Method Standard Start
Motor Space Heater Yes
Space Heater Rated for 1Ph/50-60Hz/100-125V
Space Heater Operating Voltage 120
Maximum Sheath Temperature Standard(140 Deg C)

Certified
ISO 9001

Engineered Motors

ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number/Plant Order Number	Customer Number	Customer Order Number	P.O. Date
1209887000-10/1188653	182848	4502008170	03/31/2022

Space Heater Qty 1
Space Heater To Main Cbox Yes

MOUNTING

Mounting Position F-1
Frame Mounting Foot (Dual Mounting Hole)
Drive Method Coupled
Mounting Orientation Horizontal
Shaft - Special Material No
Shaft Extension T

BEARINGS

Drive End Seal None
Lube Type Grease
Grease Type Exxon Polyrex EM
Grease Fitting Extensions Rqd. No

MECHANICAL

Balance Standard (0.15 in/sec)
Rotation Facing ODE Bi-directional
Fan Material Standard
Paint System Standard (C2)
Paint Color Specification Standard Epoxy
Paint Color Dark Charcoal Gray
Baldor-Reliance Paint Spec No 004824-007CCV / MG1025G29
Auto Drain Type UL XP Drain – Stainless Steel

MONITORING DEVICES

Winding Thermostat Yes
Winding Thermostat Type High Limit
Thermostat High Limit Contacts Normally Closed
Winding Thermostat Qty 3 Total - One per Phase
Wdg Thermostat To Main Cbox Yes

CONDUIT BOX

Main Conduit Box Required
Main Conduit Box Location Standard (side)
Main Conduit Box Material Cast Iron
Main Conduit Box Size Standard Oversize
Terminal Panel No
Lead Entry Location Toward Feet - Down
Ground Servit Post No
Bus Bars / Standoffs No
Sealed Leads Yes

NAMEPLATE / LABELS

Nameplate Language English
Nameplate Material Standard
Space Heater Nameplate Yes
Additional heater Markings No

Certified
ISO 9001

Engineered Motors

ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number/Plant Order Number	Customer Number	Customer Order Number	P.O. Date
1209887000-10/1188653	182848	4502008170	03/31/2022

Label "Heater Energized"	No
Special Nameplate Rqd	Yes
Variable Frequency Marks	Yes
Label UL	Yes
Label CSA	Yes
Efficiency Marking	DOE CC Mark Required

PACKAGING

Packaging Type	Standard Packing
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DOCUMENTATION

Document Unit of Measure	US
Certified Dimension Sheet	Yes
Performance Data/Curves	Yes
Standard Connection Diagram	Yes
Motor Instruction Manual	Yes
Renewal Parts List	Yes
Nameplate Data	Yes
Documentation Format	PDF

COMMERCIAL COMMENTS

Estimated Lead Time	Estimated Lead Time is based on plant loading at the time of quotation and is intended to be used as a guide for our customers. This estimation includes the Engineering and Manufacturing time only. It DOES NOT include shipping time. Please contact your ABB Motors and Mechanical Inc. representative if specific delivery requirements are needed.
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Certified
ISO 9001

Engineered Motors

Notes:	Class CLI GP C,D Division Division I
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Nameplate NP2496L	
MOBIL POLYREX EM	

Notes:	Class CLI GP C,D Division Division I
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Nameplate 000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

Notes:

Class CLI GP C,D
Division Division I**Nameplate 000901002AAA**

EQUIPPED WITH 120V/245W SPACE HEATER

SUITABLE FOR OPERATION ON VPWM INVERTER

EQUIPPED WITH IGBT DEVICES AND CAPABLE OF

CARRIER FREQUENCY OF 2KHZ OR HIGHER

Notes:

Class CLI GP C,D
Division Division I

Nameplate NP2354L									
SPEC NO.	A44-5210-0690			CAT.NO.				FRAME	447T
HP	200	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P
RPM	1785	AMPS	222	HZ	6-60	AMB	40	SF	1.00
DRIVE END BEARING	90BC03J30X			DUTY	CONT		INSUL.CLASS	F	
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC		CODE	G	
VARIABLE	TORQUE		SER.NO.				NEMA NOM EFFICIENCY	96.2	
VPWM INVERTER									
SUIT FOR 1.15 SF ON SINEWAVE POWER									
18-P-1824M								MOTOR WEIGHT	

Part numbers will be located on bottom line of nameplate when requested

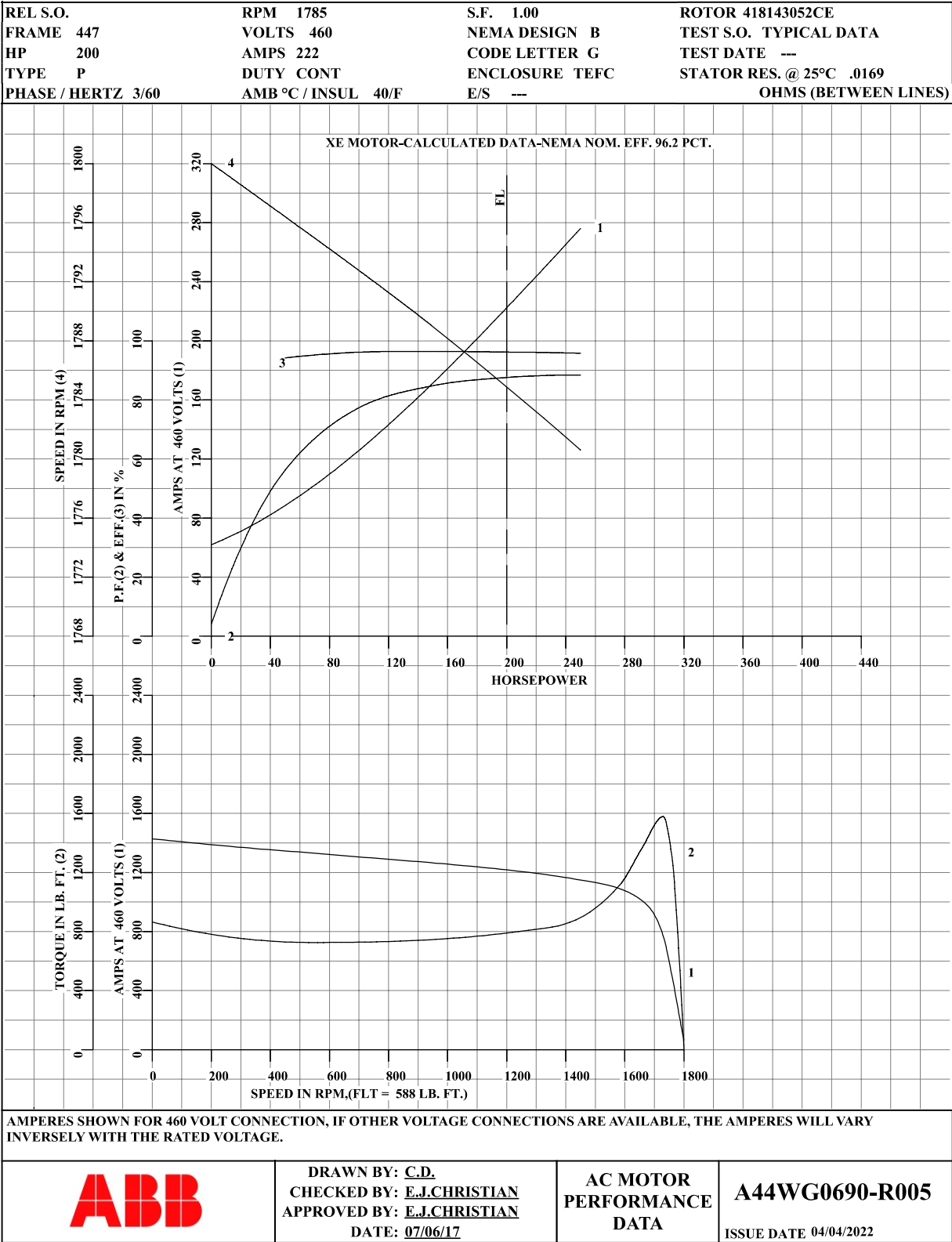
18-P-1824M

18-P-1825M

18-P-1826M

18-P-1827M

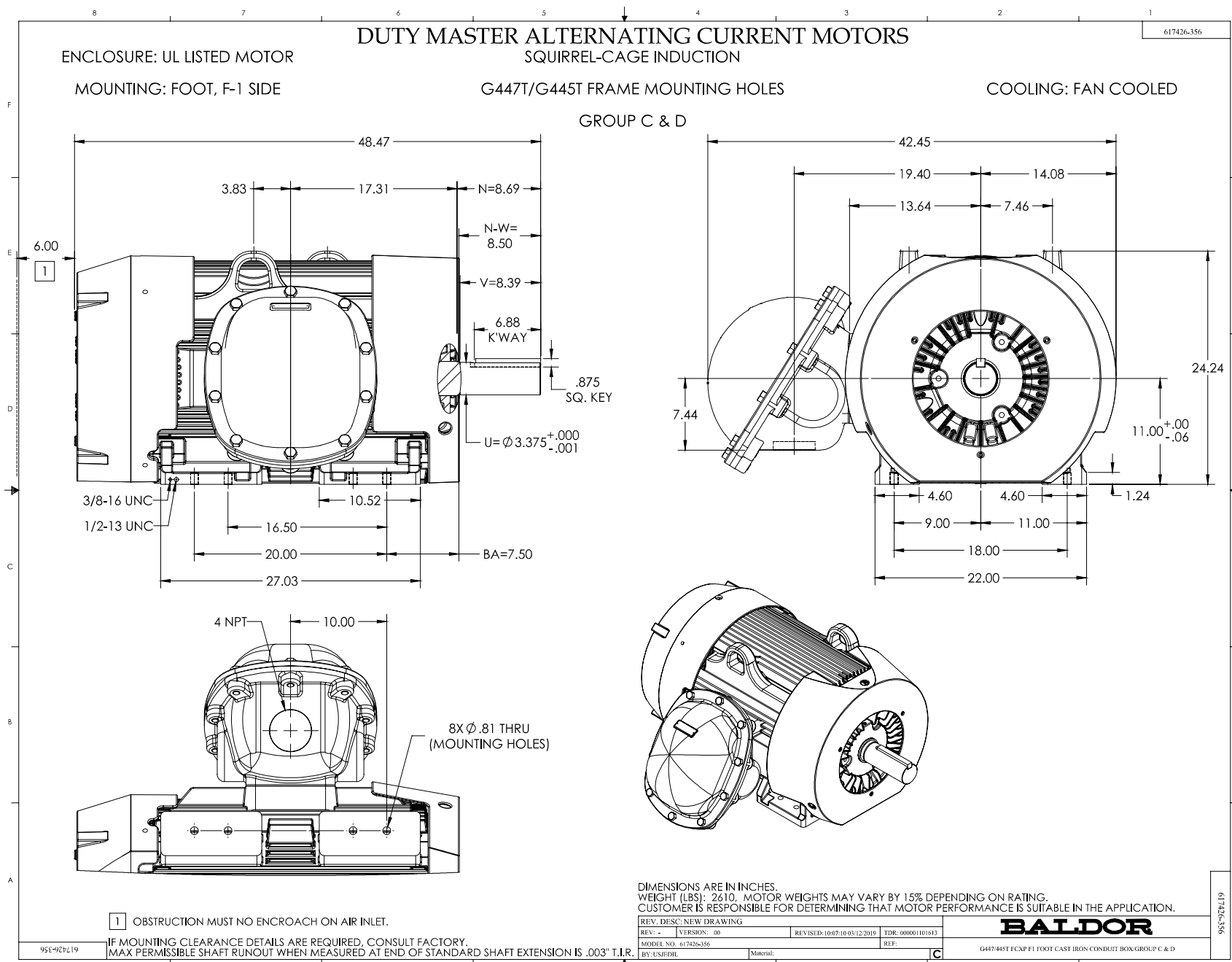
S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447	200	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
222	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
---	418143052CE	---	---	.0169		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	62.0	1800	4.07	0	
1/4	50.0	88.3	1796	56.3	94.3	
2/4	100	126	1793	77.4	96.2	
3/4	150	172	1789	84.8	96.4	
4/4	200	222	1785	87.6	96.2	
5/4	250	276	1781	88.4	95.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	147	865	1428	
PULL UP		540	123	726	1332	
BREAKDOWN		1730	268	1579	770	
FULL LOAD		1785	100	588	222	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.						
		DRAWN BY: <u>C.D.</u> CHECKED BY: <u>E.J.CHRISTIAN</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>07/06/17</u>		AC MOTOR PERFORMANCE DATA		A44WG0690-R005 DATE ISSUED 04/04/20



Parts List		
Part Number	Description	Quantity
A44WG0690-C001	3,4,A44120M,N,416820-036,603204-002-L,41	1.000 EA
A44WG0690-R005	3,4,A44120M,N,416820-036,TEFC,B,60,200 H	1.000 EA
421948051	LABEL, MYLAR	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
000613006PC	N/P U/L (REL QTY 500)	1.000 EA
000901002AAA	N/P BLANK (RELEASE QTY 1,500)	1.000 EA
NP2354L	SUPER-E, SS, CSA-C US, CSA EEV, CC010A	1.000 EA
046001029AD	THERM 180-440	1.000 EA
413470002A	lifting strap	2.000 EA
433735004AAM	INSUL BOM 440 4 PL 09G 15 CL MS 4DT	1.000 EA
603866094F	HEATR #025450U1 (440)	1.000 EA
N424000803GSA	LEAD SET 1/0-1 AWG 6-GS 447/9 FR 72 IN	2.000 EA
NN424018002GSA	LEADS T-STAT - 2 #18 6-GS 43 IN. P1, P2	1.000 EA
GD482401055	VARNISH ER134 #47-132	1.708 GA
089436025E	G447 XP FRAME MACHINING -FOOTED-DRAINS	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	2.000 EA
416821003GE	6318 C3 - - STL ABEC1 S SLUSH	1.000 EA
416821003GE	6318 C3 - - STL ABEC1 S SLUSH	1.000 EA
604978014R	CAP 440 604978012W	1.000 EA
604978014C	CAP NNN 604978012W	1.000 EA
611766352RA	G447 FCXP 6318-6318	1.000 EA
609158001D	SLGR - 440	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
603284001W	SLGN - 449	1.000 EA
089448117B	G28 X/P FT MNT ODE BRKT MCHG 6318	1.000 EA
415072001B	CLAMP	1.000 EA
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
078548001R	FAN KB 234/150 (84) 400	1.000 EA
004824015A	GREASE POLYREX EM	1.160 LB
032130024HB	HHSHCS 1-8X3" PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
410700004A	WSHR	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034530064BB	P/NIP 1/4X8 PLATED	1.000 EA
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
702623018B	BRKT MOUNTED G28 XP T-BARRIER - 6318 BRG	1.000 EA
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
089448117A	G28 X/P FT MNT DE BRKT MCHG 6318	1.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
415045002A	SLGR	1.000 EA

034017016AB	LCKW 1/2" PLATED	3.000 EA
034530064BB	P/NIP 1/4X8 PLATED	1.000 EA
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
032130024HB	HSHCS 1-8X3" PLATED	4.000 EA
418151014G	RETAIN RING	1.000 EA
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 EA
18CB1005A09	CONDUIT BOX 444-9T XP W/(1)4"NPT	1.000 EA
18CB1505A01	STD CONDUIT BOX LID 444-449T 318 EXPL PR	1.000 EA
034017020AB	LWSHR 3/4" PLATED (419136) 034017020AF	10.000 EA
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	4.000 EA
032130020FB	HSHCS 3/4-10X2-1/2L PLTD	10.000 EA
415000115H	T/LUG #2AWG-4/0AWG	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	1.000 EA
034017016AB	LCKW 1/2" PLATED	1.000 EA
032130020EB	HSHCS 5/8-11X2-1/2PLTD.	4.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.500 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	7/8 SQ X 6.75 KEY	1.000 EA
604797032	447/449 WIDE SHIPPING SKID 70" X 55"	1.000 EA
032510026D	CARRIAGE BOLT - 440	2.000 EA
034001016AB	WSHR .562ID 1.375OD .109	2.000 EA
034001014AB	FLAT WASHER 3/8"PLATED	2.000 EA
033300014AC	HEX NUT, SHIPPING - 400	2.000 EA
604799003C	PLASTIC BAG 42X32X46	1.000 EA



416820-071

SPACE HEATER DATA

SPACE HEATER CONNECTION DIAGRAM 416820-071
FREQ(HZ) 25-120

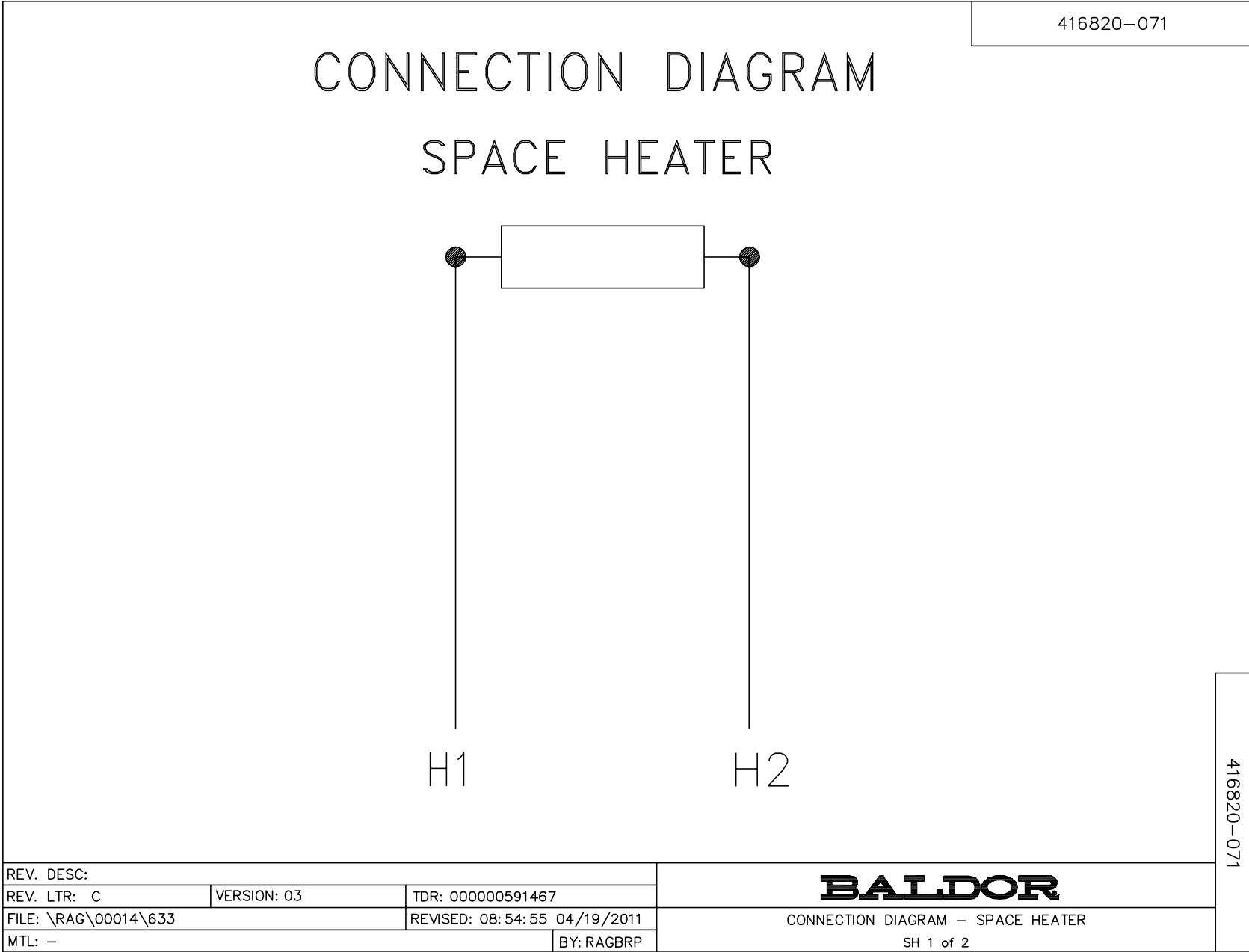
NEMA Frame	Metric Frame	Voltage	Amps	Watts
180* & 210*	112S/M* & 132S/M*	100	0.189	19
		110	0.208	23
		115	0.217	25
		120	0.226	27
		208	0.099	21
		210	0.100	21
		215	0.102	22
		220	0.104	23
		230	0.109	25
		240	0.114	27
		380	0.045	17
		440	0.052	23
		460	0.054	25
		480	0.056	27
		575	0.043	25
250	160L/M	100	0.363	36
		110	0.399	44
		115	0.417	48
		120	0.435	52
		208	0.189	39
		210	0.191	40
		215	0.195	42
		220	0.200	44
		230	0.209	48
		240	0.218	52
		380	0.086	33
		440	0.099	44
		460	0.104	48
		480	0.109	52
		575	0.083	48
280	180L/M	100	0.544	54
		110	0.599	66
		115	0.626	72
		120	0.653	78
		208	0.283	59
		210	0.286	60
		215	0.293	63
		220	0.299	66
		230	0.313	72
		240	0.327	78
		380	0.126	48
		440	0.150	66
		460	0.157	72
		480	0.164	79
		575	0.125	72
320	200L/M	100	0.681	68
		110	0.749	82
		115	0.783	90
		120	0.817	98
		208	0.354	74
		210	0.357	75
		215	0.365	78
		220	0.374	82
		230	0.391	90
		240	0.408	98
		380	0.162	62
		440	0.187	82
		460	0.196	90
		480	0.205	98
		575	0.157	90
360	225S/M	100	0.900	90
		110	0.990	109
		115	1.030	119
		120	1.070	128
		208	0.468	97
		210	0.472	99
		215	0.483	104
		220	0.495	109
		230	0.517	119
		240	0.539	129
		380	0.214	81
		440	0.248	109
		460	0.259	119
		480	0.270	130
		575	0.207	119
400	250S/M	100	1.210	121
		110	1.330	146
		115	1.391	160
		120	1.451	174
		208	0.629	131
		210	0.635	133
		215	0.650	140
		220	0.666	147
		230	0.696	160
		240	0.726	174
		380	0.287	109
		440	0.333	147
		460	0.348	160
		480	0.363	174
		575	0.278	160
440	280S/M	100	1.700	170
		110	1.870	206
		115	1.960	225
		120	2.050	246
		208	0.886	184
		210	0.895	188
		215	0.916	197
		220	0.937	206
		230	0.980	225
		240	1.023	246
		380	0.405	154
		440	0.469	206
		460	0.490	225
		480	0.511	245
		575	0.390	225

* Low surface temperature

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MAKE FROM	MATERIAL	WEIGHT (LB)	BALDOR ELECTRIC CO.
BY: RAGBRP	DATE: 04/18/2011		
SPACE HEATER DATA			416820-071
VERSION: 01	TDR: 591467	REV: A	

SH 2 OF 2



418174-006

CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ ° C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3. 0	30
220-240	1. 5	15
440-480	0. 75	7. 5
550-600	0. 60	6. 0

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1	FIGURE 4
FIGURE 2	FIGURE 5
FIGURE 3	FIGURE 6
FIGURE 7	FIGURE 8

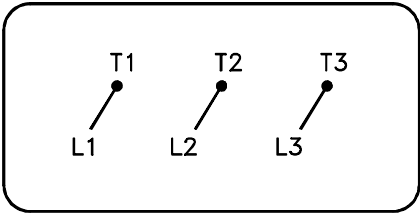
CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

BALDOR	
A-C MOTOR CONNECTION ACCESSORIES	
SH 1 of 1	
REV. DESC: LOADED TO BUS	VERSION: 01
REV. LTR: A	TDR: 00000570390
FILE: \RAG\00013\849	BY: RAGHR
MTL: -	REVISED: 10-16-21 12/07/2010

418174-006

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1

Marketing maintained PDF of MN408:

<http://www.baldor.com/support/Literature/Load.ashx/MN408?ManNumber=MN408>

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>