

BALDOR® • RELIANCE 

Product Information Packet

IDVSM3774T

10HP,1760RPM,3PH,60HZ,215TC,0748M,TEFC,F

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGX776	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07M288	Layout:	07LYM288	Poles:	04	Created Date:	09-05-2012
Base:	RG	Eff. Date:	07-12-2019	Leads:	9#14		

Specs			
Catalog Number:	IDVSM3774T	Inverter Code:	Inverter Duty
Enclosure:	TEFC	KVA Code:	H
Frame:	215TC	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	10.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	0748M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	82
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS NON-COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	12.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	25.000 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Encoder/Feedback Device	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	No Key Or Flat	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP3301L	
CAT NO	IDVSM3774T
SPEC.	07M288X776G1
FRAME	215TC HP 10 TE
VOLTS	230/460
MAG CUR	10.2/5.1 FLA 25/12.5
RPM	1760 RPM MAX 4500
HZ	60 PH 3 CLASS F
SER.F.	1.00 SL HZ 1.3
NEMA-NOM-EFF	92.4 WK2 1.18
RATING	40C AMB-CONT
DE BRG	6307 ODE BRG 6206
CC	010A SN
	1.5:1 CHP PWM

Parts List		
Part Number	Description	Quantity
SA251139	SA 07M288X776G1	1.000 EA
RA237982	RA 07M288X776G1	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
07EP1901A36	FRONT 206 BRG,GRSR,REL,#18 DRAIN	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37PE1300A10	PUEP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
07FH1002A24	C-FACE FH W/ 206 BRG. GRSR, REL & STD DR	1.000 EA
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 EA
10XN3118A52	5/16-18 X 3-1/4 HEX HEAD CAP SCR,GR.5,Z/	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA1103A13	#4 X 4 SCREEN FOR FAN CVR 07FH1002 (MR21	1.000 EA
13XT0832A07	8-32X7/16 TYP 23 PAN HD SLT DX	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA6059A05	ADAPTER FOR 8.50" RABBET TO 4.50" RABBET	1.000 EA
84XN5013J16S	1/2-13 X 1 LOW HEAD HEX SOC HD, GRADE 8	4.000 EA
HA6881	BEI HS35 THRU SHAFT ENCODER PROTECTIVE C	1.000 EA
10XN3816A10	3/8-16 X 5/8 HEX HD CAP SCREW	3.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
09GS1013SP	09 GS FOR 09CB3501 LID - LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.036 GA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP3301L	SS INV UL CSA CC (W/OUT DESIGN FIELD)	1.000 EA
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 1/21	1.000 EA

REL. S.O.	ZDVSM3774T	VOLTS	460	ENCLOSURE	TEFC	WYE	CONN	EQ. CKT	OHMS	PER	PHASE
FRAME	215TC	AMPS	12.5	MAX SAFE RPM	6000					(AT BASE RATING, 25°C)	
HP	10	DUTY	CONT	In (AMPS)	5.1	R1		0.5070	X1	1.9720	
BASE SPEED	1760	S.F.	1.0	P.F. @NL/FL	4/82	R2		0.3420	X2	1.5800	
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/F	WK ² (lb-ft ²)	1.18				XM	48.3000	

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	10.0	29.80	460	60	12.30
Max Speed	2655	10.1	20.05	460	90	11.98
Min Speed	0	0.0	29.00	29.70	1.27	12.30

Load Performance at Base Speed

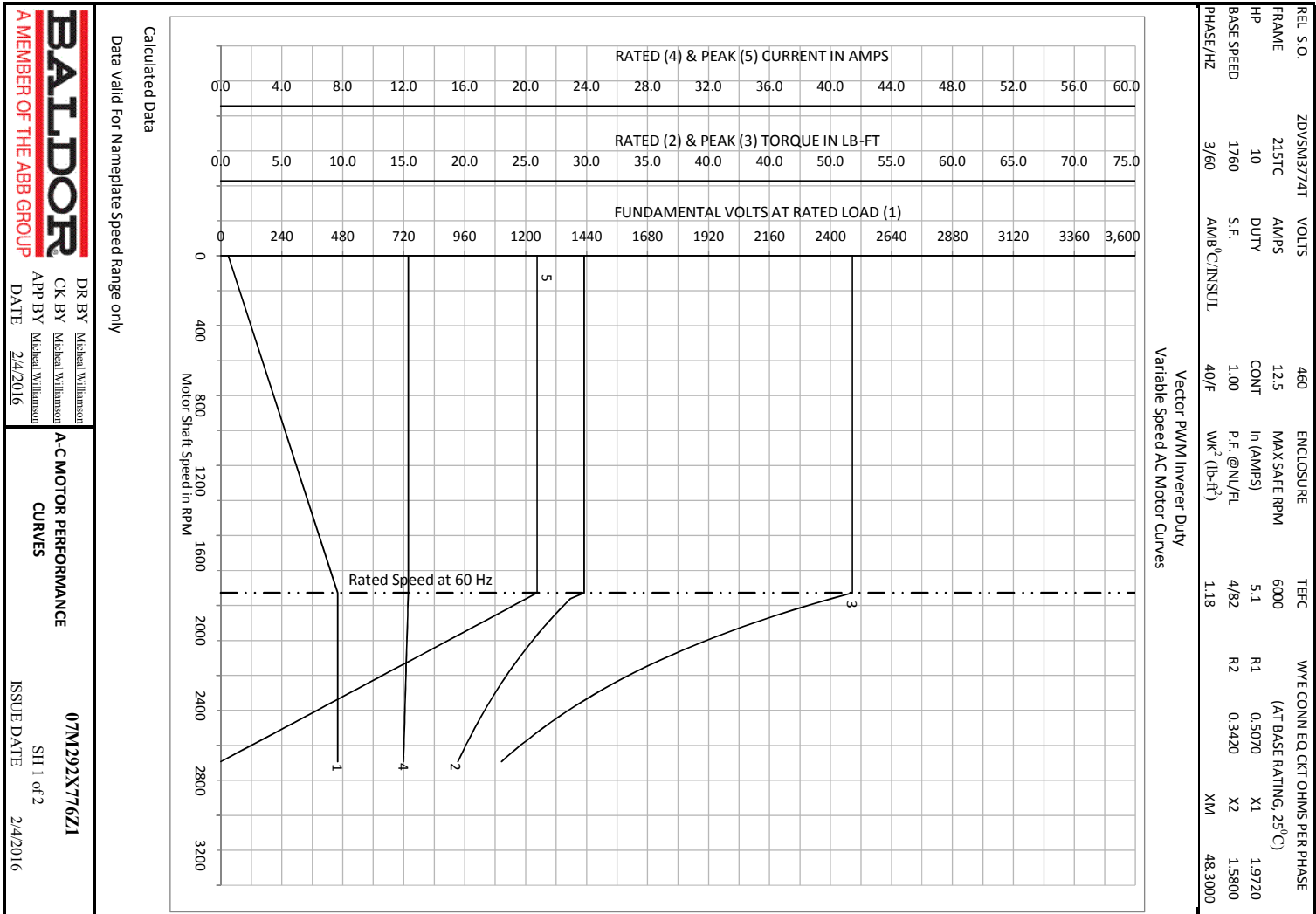
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	5.10
1/4	1790	2.5	7.29	460	60	5.84
1/2	1781	5.0	14.70	460	60	7.52
3/4	1771	7.5	22.30	460	60	9.75
Full Load	1762	10.0	29.80	460	60	12.30
O/L	1740	17.2	51.80	460	60	20.75

Blower Data

	Volts	Pb/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

 <p>A MEMBER OF THE ABB GROUP</p>	DR BY <u>Michael Williamson</u> CK BY <u>Michael Williamson</u> APP BY <u>Michael Williamson</u> DATE <u>2/4/2016</u>	A-C MOTOR PERFORMANCE CURVES	07M292X776Z1 ISSUE DATE 2/4/2016
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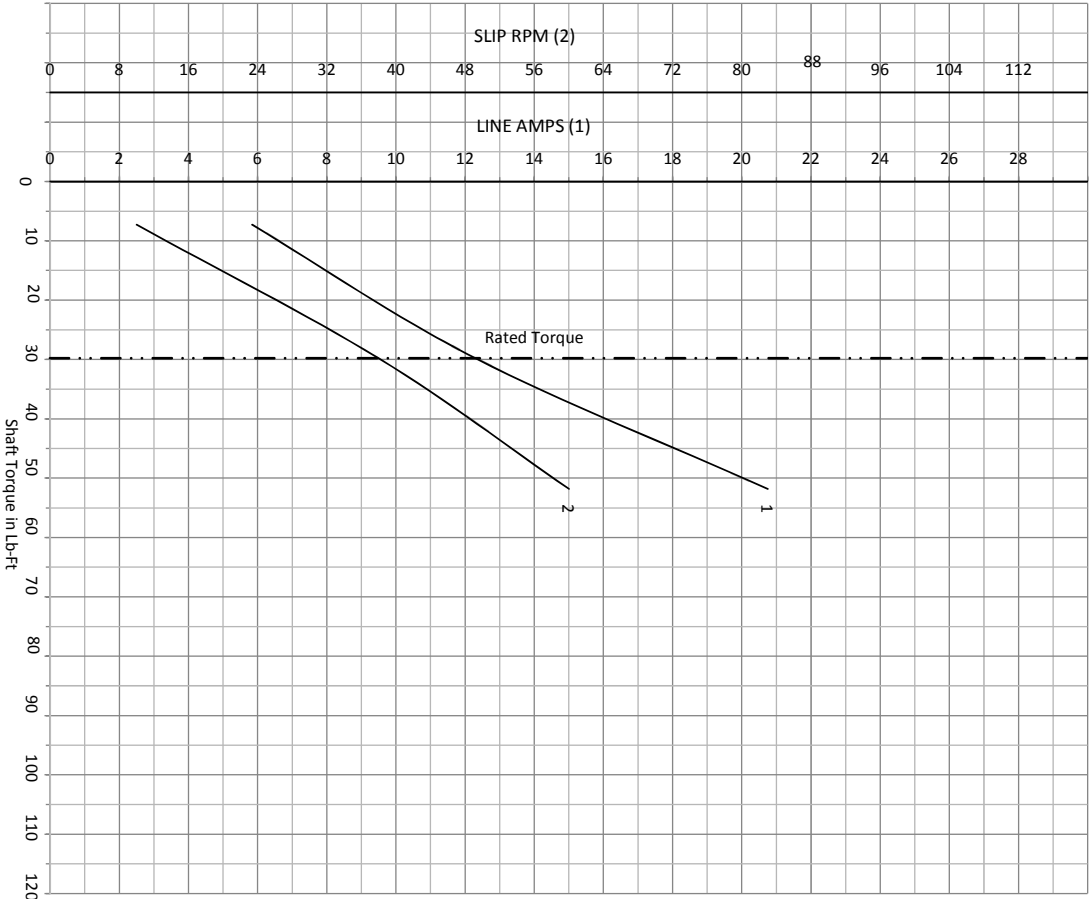
DR BY: Michael Williamson
CK BY: Michael Williamson
APP BY: Michael Williamson
DATE: 2/4/2016

A-C MOTOR PERFORMANCE CURVES

07M292X776Z1
SH 1 of 2
ISSUE DATE: 2/4/2016

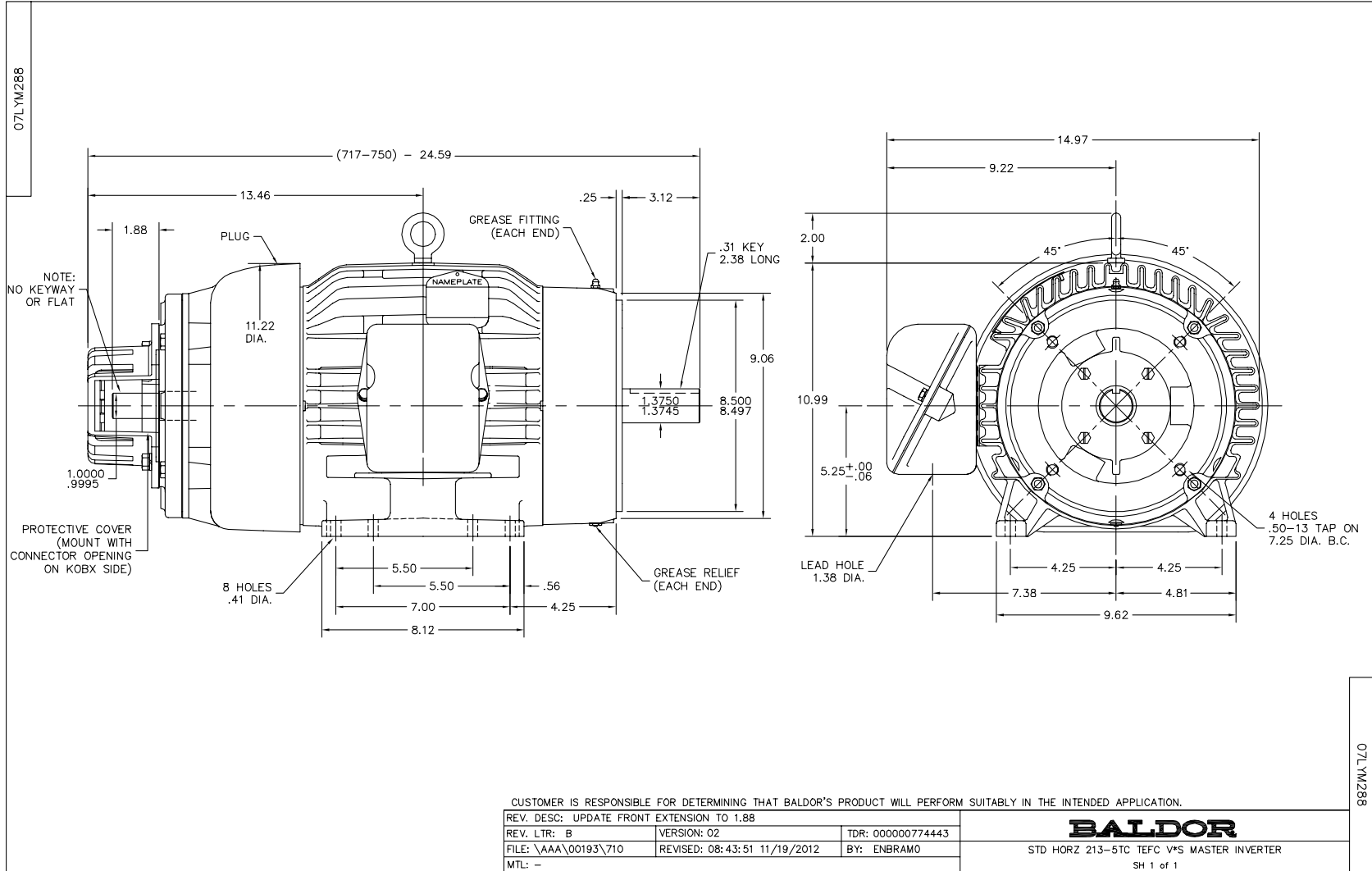
REL. S.O.	ZDVSM3774T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)
FRAME	215TC	AMPS	12.5	MAX SAFE RPM	6000	R1 0.5070 X1 1.9720
HP	10	DUTY	CONT	In (AMPS)	5.1	R2 0.3420 X2 1.5800
BASE SPEED	1760	S.F.	1.00	P.F. @NL/FL	4/82	XM 48.3000
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/F	WK ² (Lb.-ft ²)	1.18	

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data
Data Valid For Nameplate Speed Range only

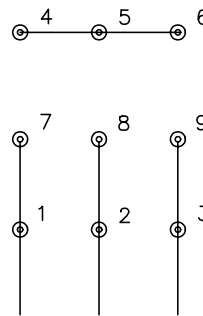
 A MEMBER OF THE ABB GROUP	DR BY Medical Millwrights CK BY Medical Millwrights APP BY Medical Millwrights DATE 2/4/2016	A-C MOTOR PERFORMANCE CURVES	07M292X776Z1 SH 2 of 2 ISSUE DATE 2/4/2016
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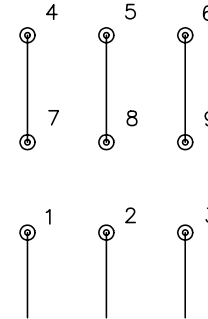


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900003		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

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