

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VEM2514T**

**20HP,3510RPM,3PH,60HZ,254TC,3928M,ODP,F1**

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WG101	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39D05	Layout:	39LYD005	Poles:	02	Created Date:	07-15-2016
Base:	N	Eff. Date:	04-27-2021	Leads:	9#12		

Specs			
Catalog Number:	VEM2514T	Heater Indicator:	No Heater
Enclosure:	ODP	Insulation Class:	F
Frame:	254TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	G
Output @ Frequency:	20.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3928M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	88
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	23.500 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	47.000 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	51.000 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Drip Cover Mounting	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

Nameplate NP3554LUA											
CAT.NO.	VEM2514T			P/N				ENCL	ODP		
SPEC.	39D005X101G1		CC	010A		FRAME	254TC		SER.NO.		
HP	20		CLASS	F		HZ	60				
RPM	3510		PH	3		DES	A				
VOLTS	230/460			CODE	G		ODE BRG	6208		DE BRG	6309
AMPS	47/23.5			USABLE AT 208V	51						
RATING	40C AMB-CONT			NEMA-NOM-EFF	91		GREASE	POLYREX EM			
PF	88		SER.F.	1.15		CT30-60(2:1)		VT3-60(20:1)			
USABLE AT	50HZ 20HP 190/380V 56/28A				SF 1.0						
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.					

Parts List		
Part Number	Description	Quantity
SA324218	SA 39D005X101G1	1.000 EA
RA312049	RA 39D005X101G1	1.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
HA3154A05	THRUBOLT STUD 3/8-16 X 16.875	4.000 EA
39EP3200A02	FR E P, MACH - DR CVR MTG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
39EP3400A01	STD FACE MTD ENDPLATE 309 BRG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
39AD2000	BAFFLE PLATE, STAMPED	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	4.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
39FH4500A01	DRIP COVER, STAMPED	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	2.000 EA
HA2001B08	SPL SPACER FOR AIR DEFLECTOR .50 O.D. X	2.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
PK6016	BASELESS FOOT BRACKET FOR 39 & 40 FRAME	3.000 EA
10XN5013K20	1/2-13 X 1.25 LON HEX HD SCREW SAME AS	2.000 EA
HW1000A50	1/2 SAE FLAT WASHERS	2.000 EA
XY3816A12	3/8-16 FINISHED NUT	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3554LUA	SS SUPER-E VPWM INV READY UL CSA-EEV PRE	1.000 EA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA

**AC Induction Motor Performance Data**

Record # 56168

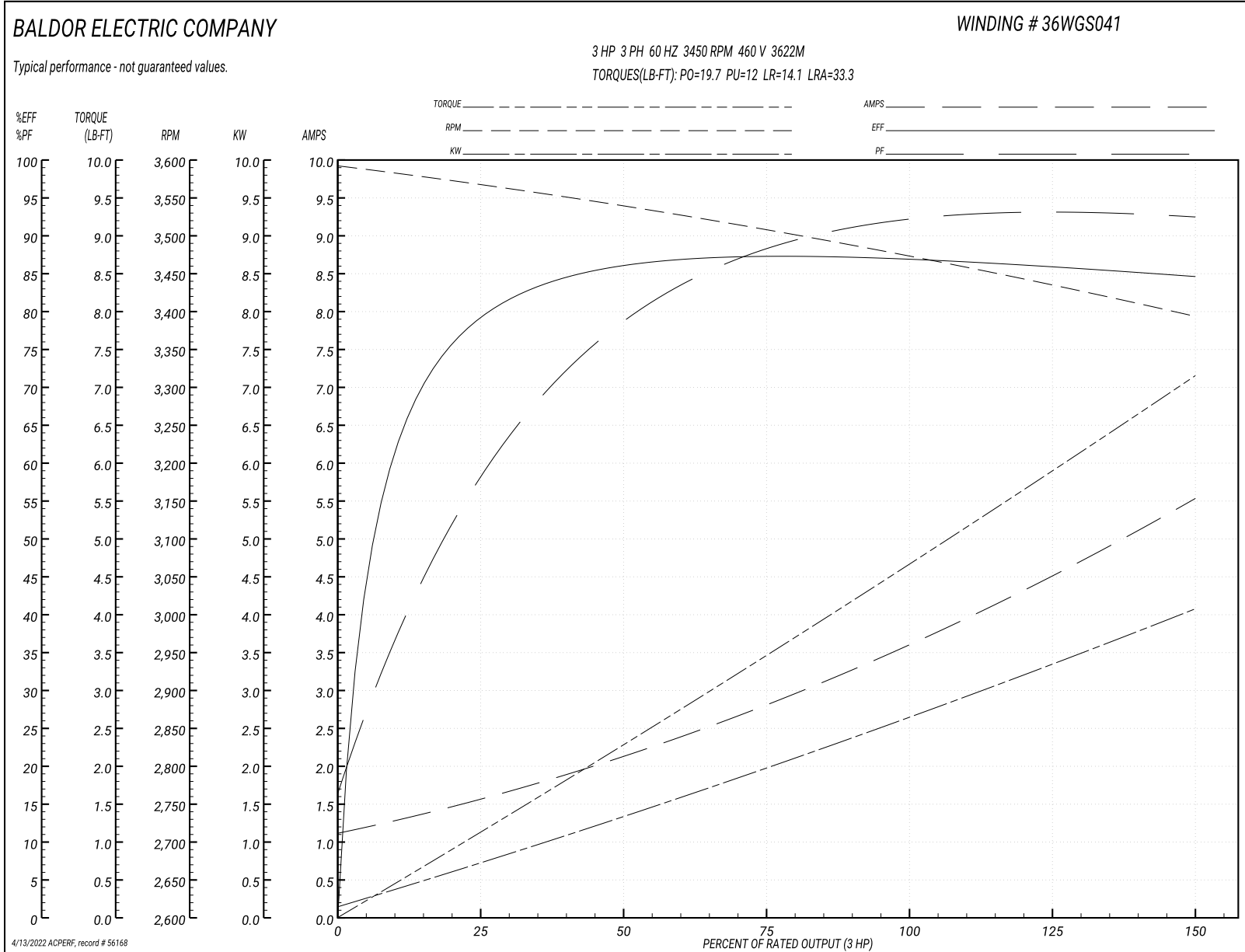
Typical performance - not guaranteed values

<b>Winding:</b> 36WGS041-R015		<b>Type:</b> 3622M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	3	<b>Full Load Torque</b>	4.71 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	7.4/3.7	<b>Breakdown Torque</b>	19.7 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	12 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	14.1 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	K	<b>Starting Current</b>	33.3 A	
<b>Service Factor (S.F.)</b>		1	<b>No-load Current</b>	1.17 A	
<b>NEMA Nom. Eff.</b>	86.5 <b>Power Factor</b>	91	<b>Line-line Res. @ 25°C</b>	4.5612 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	52°C	

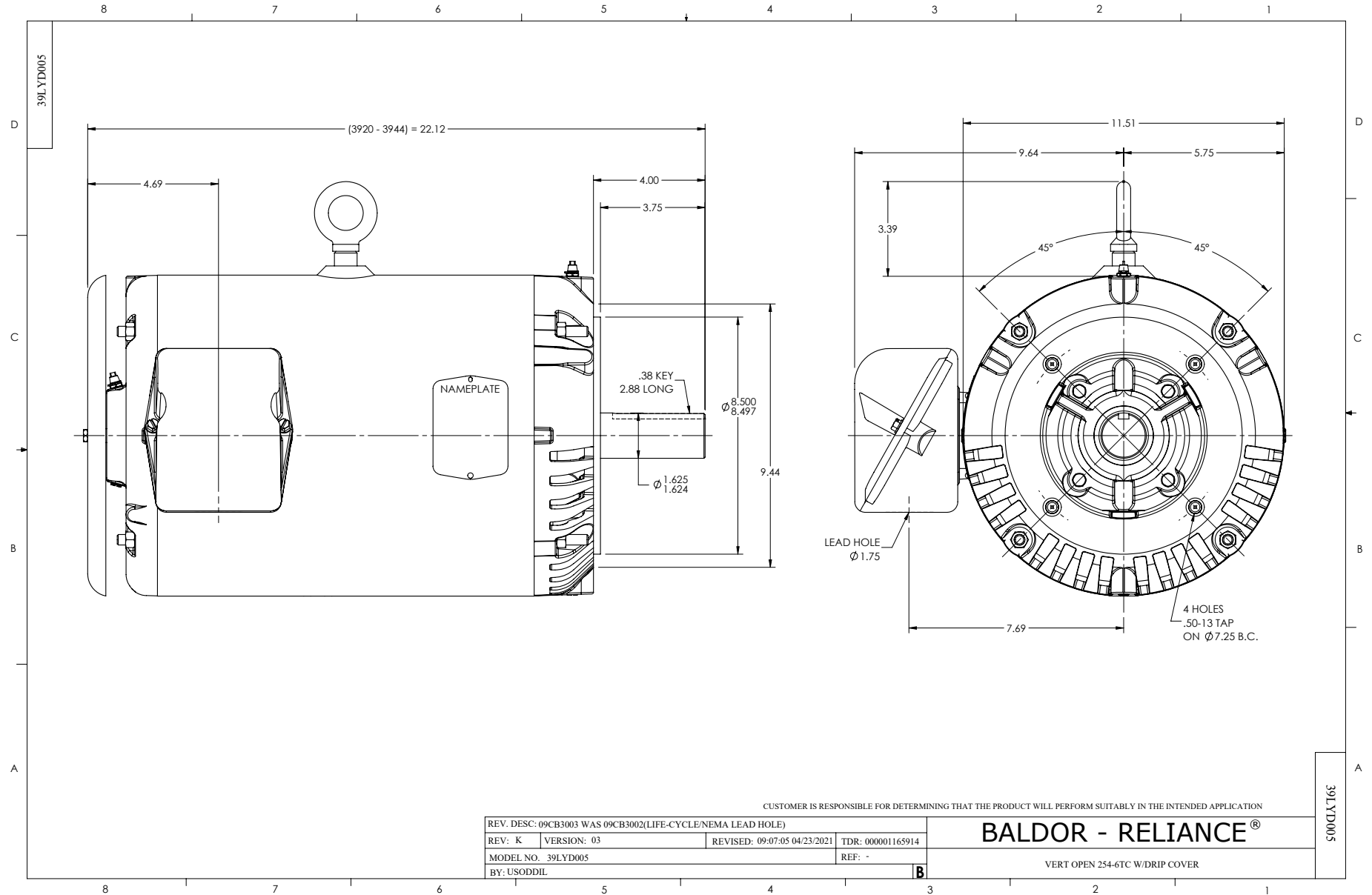
**Load Characteristics 460 V, 60 Hz, 3 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	66	82	88	91	92	93
<b>Efficiency</b>	80.8	86.2	87.3	87.1	86	84.5
<b>Speed</b>	3564.7	3535.4	3504.2	3471.8	3434.1	3393.5
<b>Line amperes</b>	1.56	2.17	2.93	3.67	4.57	5.5

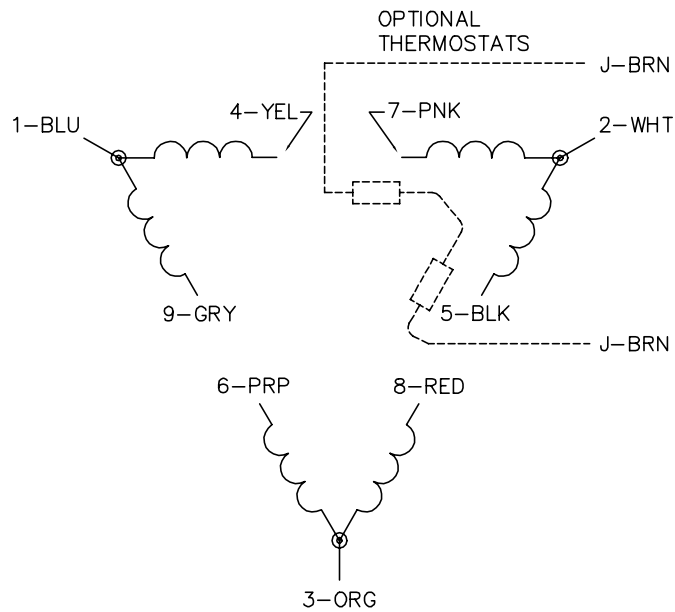
Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values



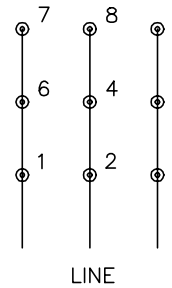




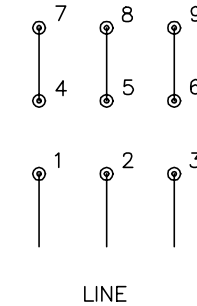
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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.

CD0180

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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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