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# Customer information packet

## EHF2523T-8

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F2

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	41.000 A @ 200.0 V 40.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	41.0 a
Insulation Class	F

## Part detail

Revision	K
Type	AC
Mech. spec.	39E172
Base	
Status	PRD/A
Elec. spec.	39WGY389
Layout	39LYE172
Eff. date	11-22-2024
CD Diagram	CD0695
Poles	04
Leads	6#8
Proprietary	False
Created date	10-12-2017

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	6 @ 8 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3948M
<b>Mounting Arrangement</b>	F2
<b>Number of Poles</b>	4
<b>Overall Length</b>	23.19 IN
<b>Power Factor</b>	85
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1765 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Part Winding
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2094E06B03</b>									
<b>CAT.NO.</b>	EHFM2523T-8								
<b>SPEC.</b>	39E172Y389G1								
<b>HP</b>	15								
<b>VOLTS</b>	200								
<b>AMPS</b>	41								
<b>RPM</b>	1765								
<b>FRAME</b>	254T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	H	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	93		<b>PF</b>	85					
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A		<b>USABLE AT 208V</b>				N/A		
<b>DE</b>	6309		<b>ODE</b>	6208					
<b>AUTO</b>		<b>MANUAL</b>		<b>NONE</b>					
<b>ENCL</b>	OPSB	<b>SN</b>							
<b>BLANK</b>									

## Parts list

Part number	Description	Quantity
SA346190	SA 39E172Y389G1	1.000 ea
RA334697	RA 39E172Y389G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
HA6016	ADAPTER, CAST CONDUIT BOX	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
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
39EP3201A23	PU ENDPLATE, MACH W/AEGIS SH RING MTG	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
84XN0632J08	#6-32 X .50 SOCK HD, BK OX	2.000 ea
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	3.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3154A03	STUD, 3/8-16 X 17.75	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.050 ga
LC0695	CONNECTION LABEL	1.000 ea
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 ea
39PA1000	PACKAGING GROUP 39 PRINT	1.000 ea
LD7020F06	LEAD SET, 8AWG, 6 LEAD, 20" LONG LEADS	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

**AC Induction Motor Performance Data**

Record # 67364

Typical performance - not guaranteed values

<b>Winding:</b> 39WGY389-R001		<b>Type:</b> 3948M		<b>Enclosure:</b> OPSB	
<b>Nameplate Data</b>			<b>200 V, 60 Hz: Run Connection</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	44.48 LB-FT		
<b>Volts</b>	200	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	41	<b>Breakdown Torque</b>	145 LB-FT		
<b>R.P.M.</b>	1765	<b>Pull-up Torque</b>	62.18 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	79.47 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	H	<b>Starting Current</b>	277 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	15.15 A		
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	85	<b>Line-line Res. @ 25°C</b>	0.108 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	26°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	32°C	
			<b>Locked-rotor Power Factor</b>	32.9	
			<b>Rotor inertia</b>	2.1 LB-FT <sup>2</sup>	

**Load Characteristics 200 V, 60 Hz, 15 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>S.F.</b>
<b>Power Factor</b>	50	72	81	85	87	87	86
<b>Efficiency</b>	89.8	93	93.5	93	92.3	91.3	92.6
<b>Speed</b>	1792	1785	1778	1769	1760	1750	1764
<b>Line amperes</b>	18.08	24.24	31.96	40.84	50.2	60.92	46.5

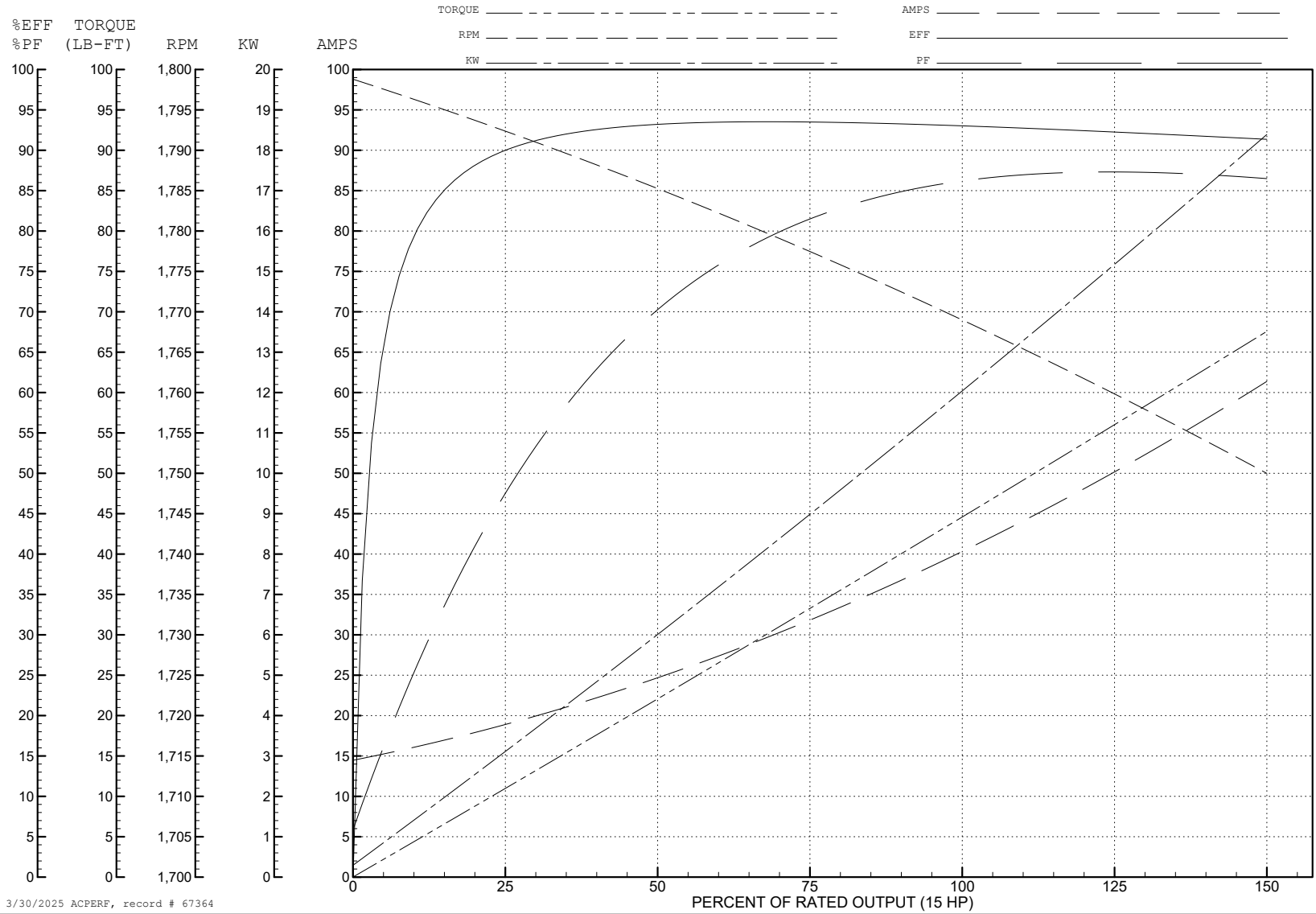
ABB Motors and Mechanical Inc.

WINDING # 39WGY389

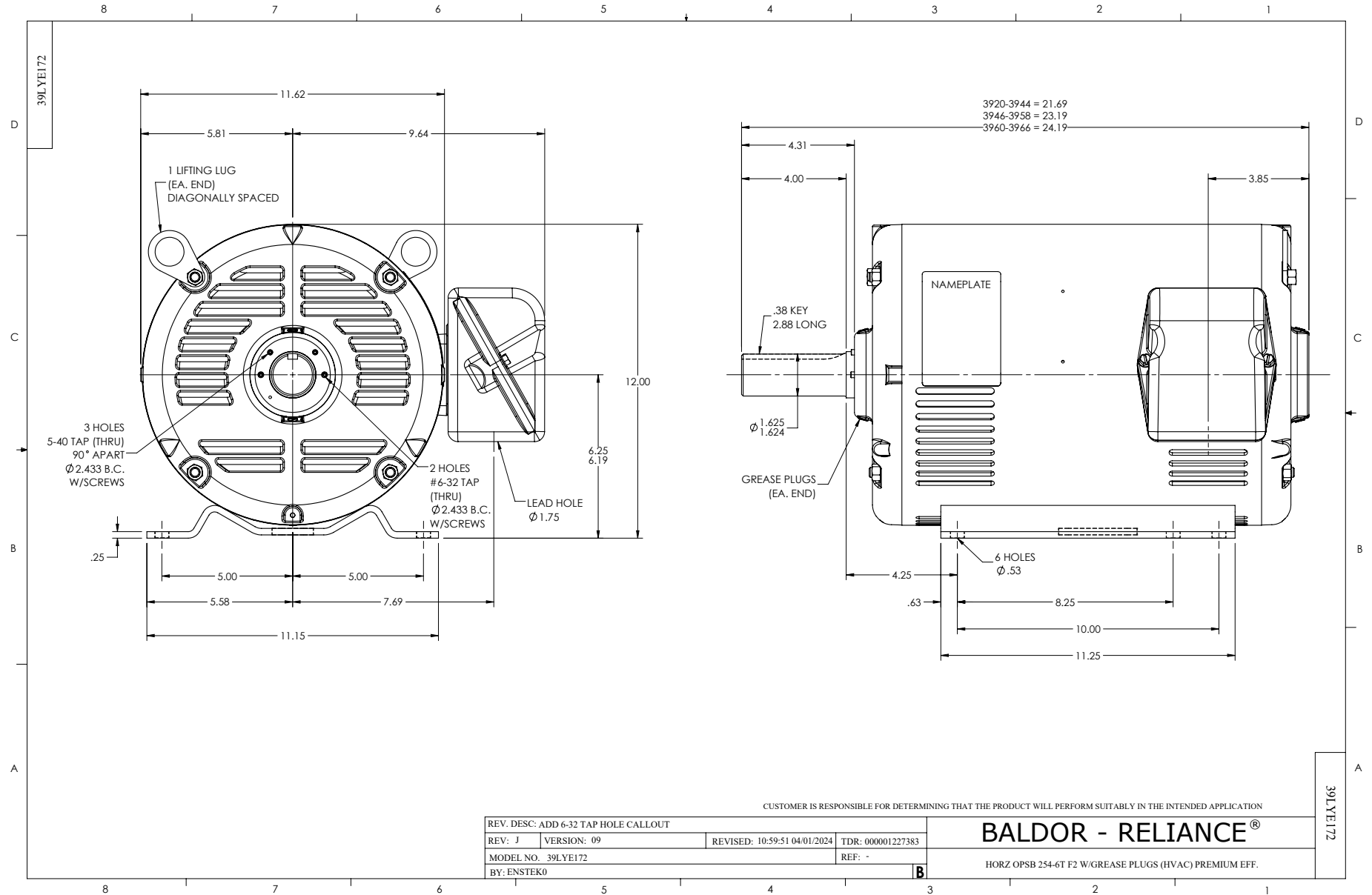
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

TORQUES (LB-FT): PO=145 PU=62.18 LR=79.47 LRA=277

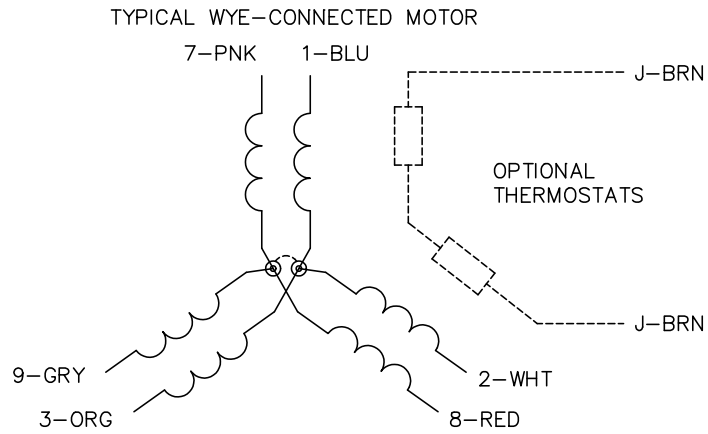


3/30/2025 ACPERF, record # 67364

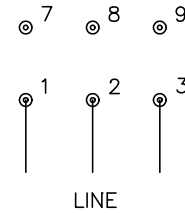




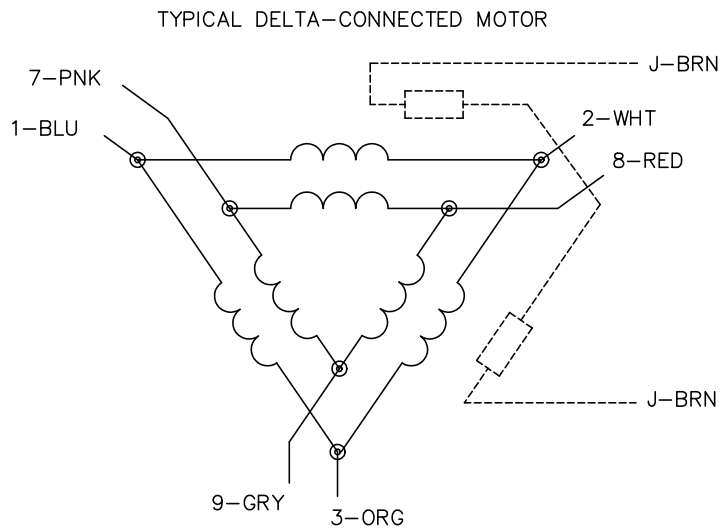
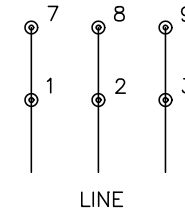
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
S69000		FILE: AAA00005151	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START