ABB BALDOR RELIANCE

Customer information packet

CSPM4104T

30HP, 1780RPM, 3PH, 60HZ, 286T, 1076M, TEFC, F1
Class - CLI GP A,B,C,D CLII GP F,G
Division - Division II

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Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Cast Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CURUSEEV
	NEMA_PREMIUM
	WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	35.000 A @ 460.0 V
	70.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3B

Part Detail

Revision	B
Type	AC
Mech. spec.	10T015
Base	
Status	PRD/A
Elec. spec.	10WGZ889
Layout	10LYT015
Eff. date	04-17-2026
CD Diagram	CD0005
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	11-05-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1076M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4439B01C23L

CAT #	CSPM4104T	**SER #**		**CC**	010A	**WGT**	490	**LBS**			
SPEC	10T015Z889	**FRAME**	286T	**ENCL**	TEFC	**IP**	55				
RATING	40C AMB-CONT			**NEMA NOM. EFF**	94.5						
HP	30	**VOLTS**	230/460								
AMPS	70/35	**RPM**	1780	**HZ**	60						
PH	3	**CL**	F	**CODE**	J	**DES**	A	**PF**	83	**%**	**SER.F.**	1.15	**SF AMP**
DE BRG	6312	**ODE BRG**	6311	**LUBE**	POLYREX EM						
INV TYPE:	**VPWM**	**SL HZ**	0.8	**CHP**	60	**TO**	90	1.5:1			
WK2	6.97	**LBFT2**	**MAX RPM**	2700	**CT**	6	**TO**	60	10:1		
MAG CUR	24.4/12.2	**VT**	3	**TO**	60	20:1					

MEETS INTENT OF IEEE-45 **FOR WEATHER PROTECTION**

CL I DIV 2 GRPS A,B,C,D	**TEMP CODE**	T3C	**CL I INV TEMP CODE**	T3A	**TEMP=**	180			
CL I ZONE 2 GRPS	**IIA,IIB,IIC**	**TEMP =**	160	**CL II INV TEMP CODE**	T3B	**TEMP =**	165	**C**	
CL II DIV 2 GRPS F&G	**TEMP CODE**	T3B	**1.0 SF ON PWM INVERTER**	**POWER**					
CL II ZONE 22 GRPS IIIB	**TEMP=**	165							

YR

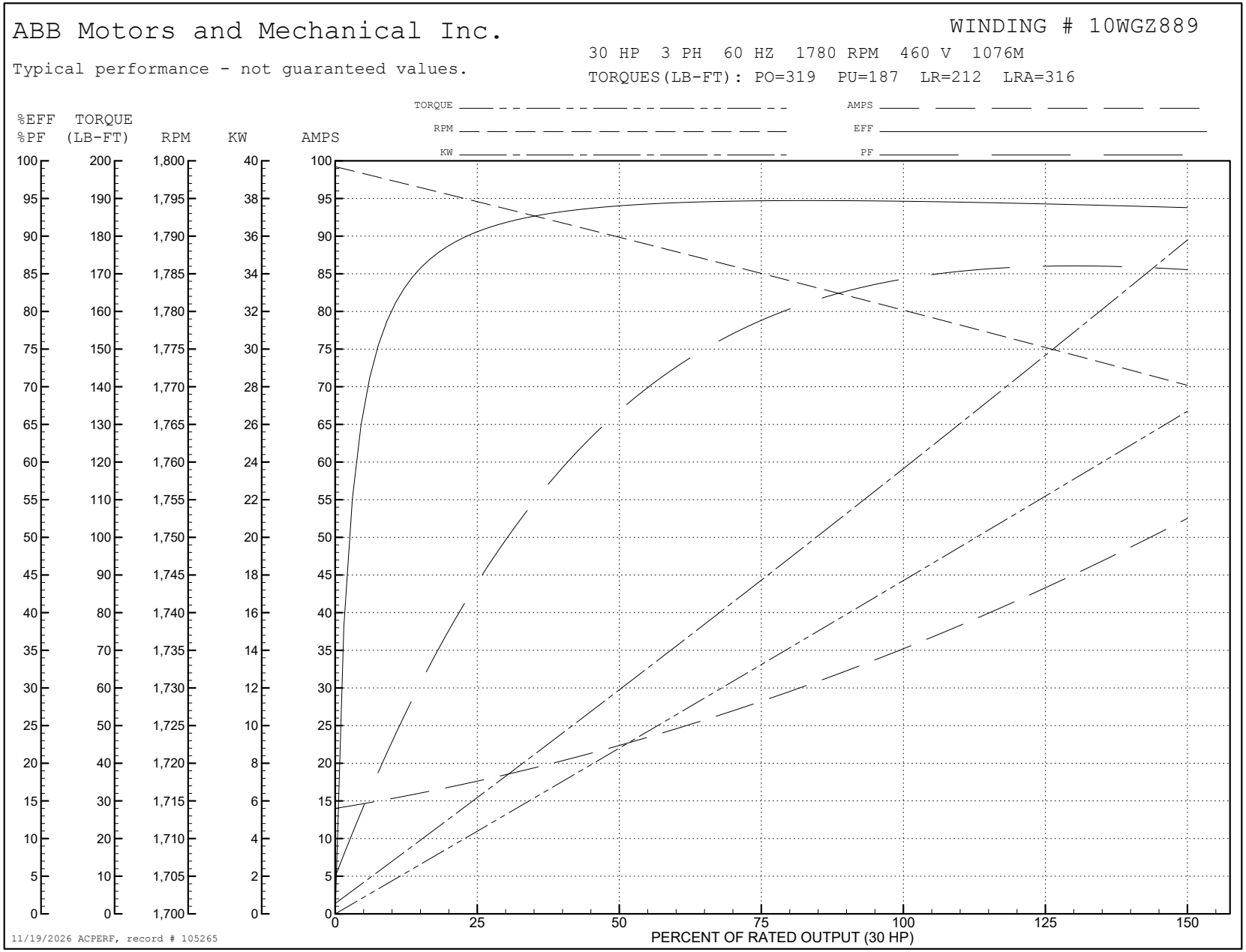
AC Induction Motor Performance Data
Record # 105265
Typical performance - not guaranteed values

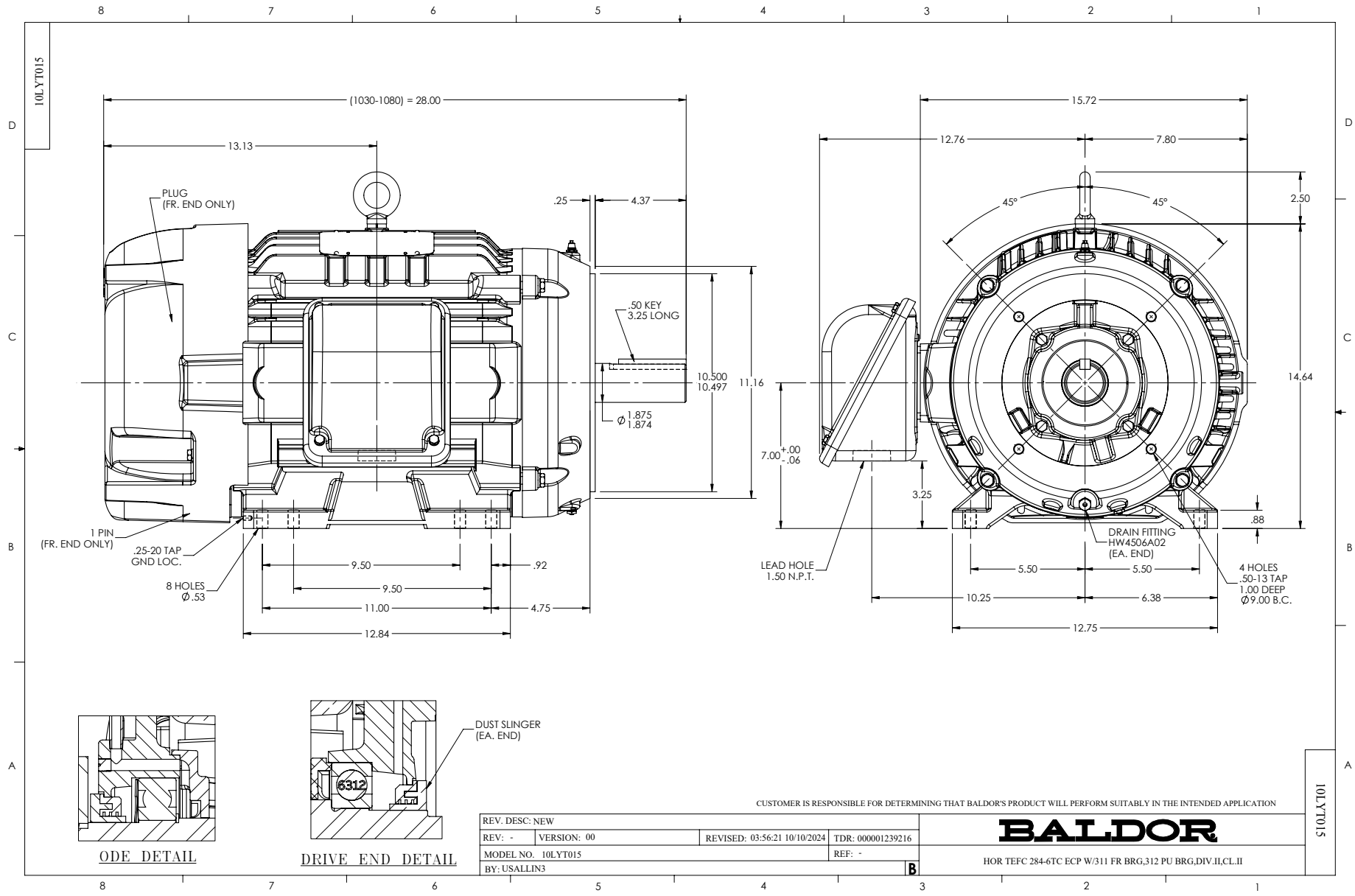
Winding: 10WGZ889-R001	**Type:** 1076M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.47 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			72/36	**Breakdown Torque**	319 LB-FT
R.P.M.			1780	**Pull-up Torque**	187 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	212 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	316 A
Service Factor (S.F.)			1.15	**No-load Current**	14.6 A
NEMA Nom. Eff.	94.5	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.20701 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	30.9

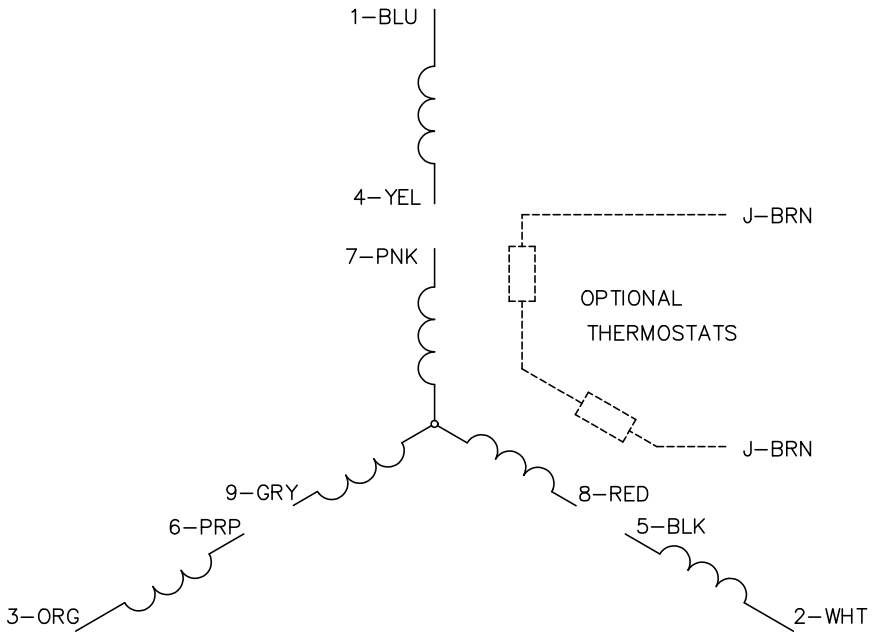
Load Characteristics 460 V, 60 Hz, 30 HP

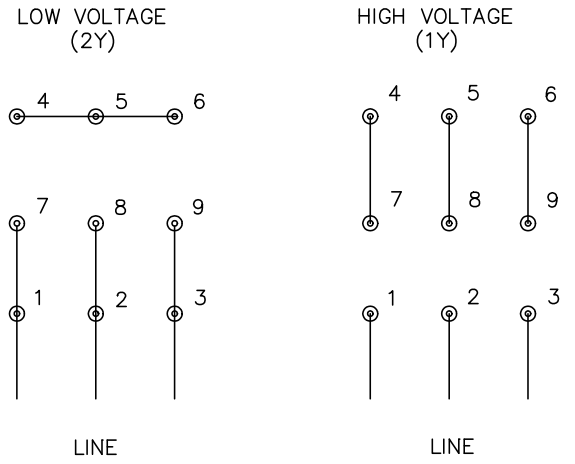
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	83	85	86	84
Efficiency	90.4	93.9	94.7	94.6	94.3	93.7	94.4
Speed	1794.6	1790.2	1785	1779.9	1775.2	1770.3	1777
Line amperes	16.9	21.9	28.4	35.7	43.6	52.1	40.4


ABB Motors and Mechanical Inc.
WINDING # 10WGZ889
Typical performance - not guaranteed values.
30 HP 3 PH 60 HZ 1780 RPM 460 V 1076M
TORQUES(LB-FT): PO=319 PU=187 LR=212 LRA=316
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/19/2026 ACPERF, record # 105265


10LYT015
(1030-1080) = 28.00
13.13
PLUG
(FR. END ONLY)
.25
4.37
.50 KEY
3.25 LONG
10.500
10.497
11.16
Ø 1.875
1.874
7.00 +.00 -.06
1 PIN
(FR. END ONLY)
.25-20 TAP
GND LOC.
8 HOLES
Ø .53
9.50
.92
9.50
11.00
4.75
12.84
15.72
12.76
7.80
45°
45°
2.50
14.64
3.25
.88
DRAIN FITTING
HW4506A02
(EA. END)
LEAD HOLE
1.50 N.P.T.
5.50
5.50
4 HOLES
.50-13 TAP
1.00 DEEP
Ø9.00 B.C.
10.25
6.38
12.75
ODE DETAIL
6312
DRIVE END DETAIL
DUST SLINGER
(EA. END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 03:56:21 10/10/2024 TDR: 000001239216
MODEL NO. 10LYT015 REF: -
BY: USALLIN3 B
BALDOR
HOR TEFC 284-6TC ECP W/311 FR BRG,312 PU BRG,DIV.II,CL.II
10LYT015

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS