

BALDOR® • RELIANCE 

Product Information Packet

ECP62334TR-4

20HP,1760RPM,3PH,60HZ,256T,0964M,TEFC,F1

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGT417	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	09K884	Layout:	09LYK884	Poles:	04	Created Date:	06-30-2017
Base:	RG	Eff. Date:	04-05-2022	Leads:	3#12		

Specs			
Catalog Number:	ECP62334TR-4	Inverter Code:	Inverter Duty
Enclosure:	TEFC	KVA Code:	G
Frame:	256T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 12 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Ring Terminals
XP Class and Group:	CLI GP A,B,C,D	Motor Type:	0964M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	87
	CSA EEV	Product Family:	Chem Process S/P 32-8 IEEE 841
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Tapped & Key
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Mobilith SHC220, HC9455	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Constant Torque Speed Range:	1.3	Shaft Rotation:	Reversible

Current @ Voltage:	23.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None
Insulation Class:	F	XP Temp Code:	T3C

Nameplate NP3201											
STK.NO.	ECP62334TR-4	P/N		ENCL	TEFC						
SPEC.	09K884T417	CC	010A	FRAME	256T	S/N					
HP	20	CLASS	F	HZ	60	ODE BRG	6309	DE BRG	NU309		
RPM	1760	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	45RU03X30X		
VOLT	460	CODE	G	O.D.E. BRG.	45BC03X30X						
AMP	23	MOTOR WEIGHT	322	GREASE	MOBILITH SHC220						
RATING	40C AMB-CONT	MAX. KVAR	3.6	BLANK							
NEMA-NOM-EFF	93	# OF ROTOR BARS	40	SER.F.	1.15	IP	56				
G.MIN.EFF	91.7	# OF STATOR SLOTS	48	PF	87	INV.TYPE	PWM				
TEMP CODE	T3C	INVERTER-TEMP-CODE	180								
TEMP =	160	C HP FR	60	C HP TO	90						
CT HZ FROM	1.3	CT HZ TO	60								
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.		VT HZ FROM	0	VT HZ TO	60

Parts List		
Part Number	Description	Quantity
SA341022	SA 09K884T417	1.000 EA
RA329392	RA 09K884T417	1.000 EA
37FN3002B02	EXFN, PLASTIC, 7.50 OD, 1.503 ID	1.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
09CB1002A12P	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA3400A39	STUD- 3/8-16 X 6.44 OAL HEX	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW4601A61	INPRO SEAL #1698-A-17120-0, VBXX 309 BRG	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW4600G53	DOME SLINGER, 5.438 OD X 1.620/1.562 ID	1.000 EA
09EP1118A121P	PUEP W/309 BRG, INPRO & EPOXY PRIMER	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW4601A61	INPRO SEAL #1698-A-17120-0, VBXX 309 BRG	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
WD4100A08	HEYCO #2783 DOME PLUG DP-2000(CUSTOME	1.000 EA
12CB1503P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.023 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
WD1000B49	T&B C73,RING TERMINAL 10-12 AWG 3/8 STUD	3.000 EA
09EP1118A121LP5	FREP MACH, 309 BRG. EPOXY & MG1025L14	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 EA
MJ1000A62	GREASE - MOBILITH SHC220, HC9455	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA

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HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
09FH1000A74LP5	FAN HSG, W/EPOXY, 2.00 BORE W/MG1025L14	1.000 EA
MG1025N19	WILKOFASST, 778.50, RELIANCE BLUE-GREEN	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3201	SS 841/661XL INV DIV-2 UL CSA- C US EEV	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA
09PA1061	PKGP SHAFT TENSIONER 2X4 4-3/4 LEG 4-1/2	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020D03	LEAD SET, 12AWG, 3 LEAD, 20" LONG LEADS	1.000 EA

AC Induction Motor Performance Data

Record # 92352

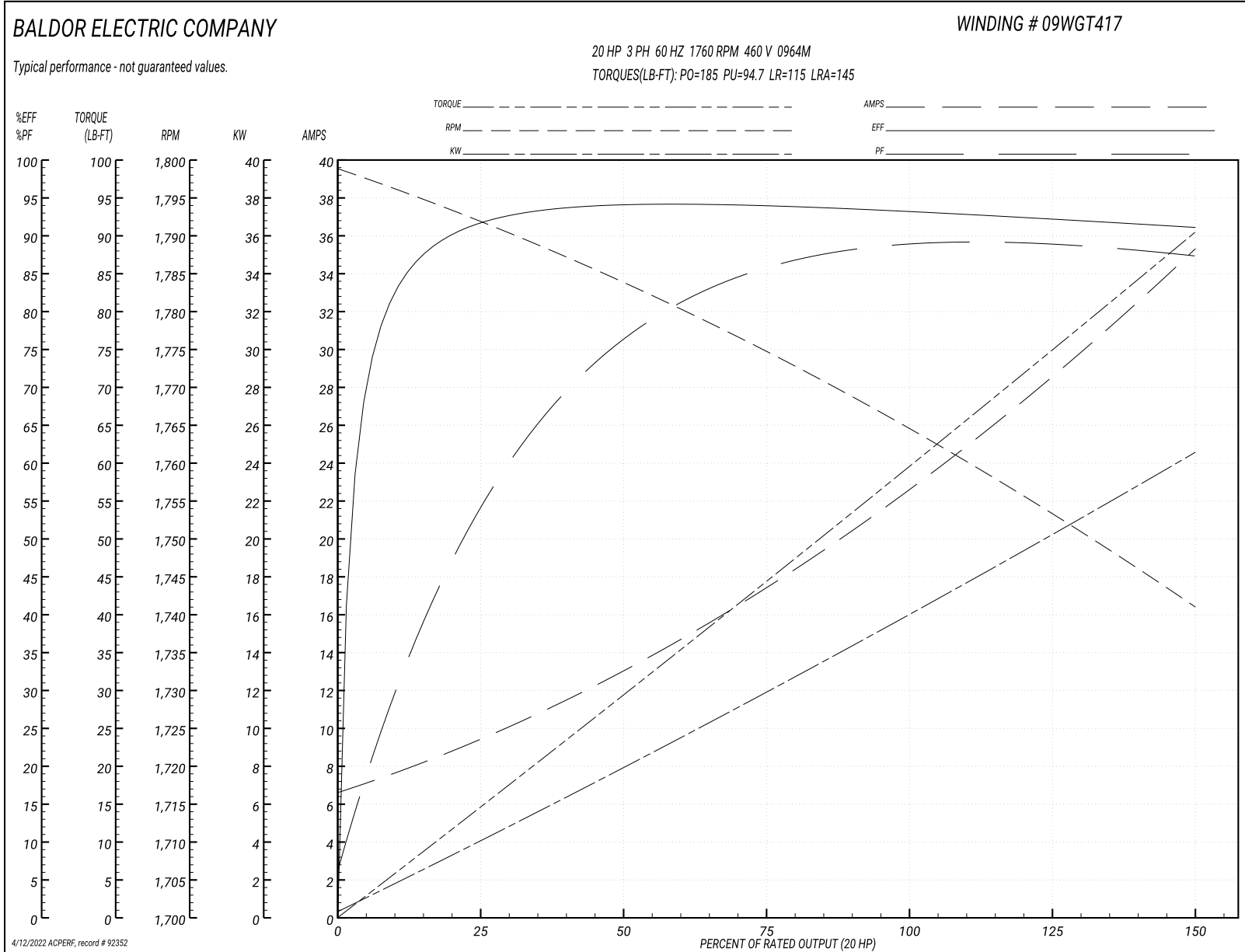
Typical performance - not guaranteed values

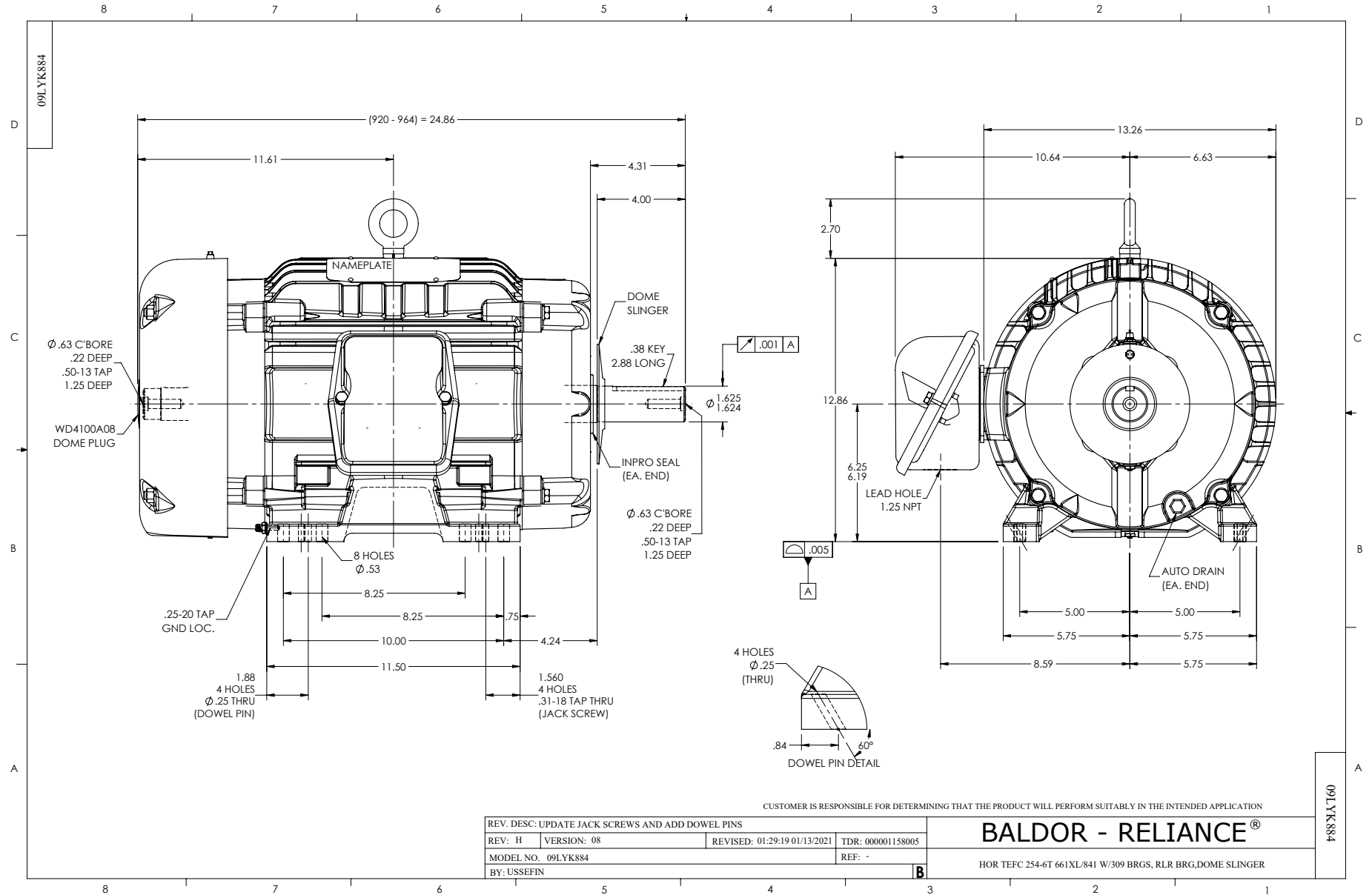
Winding: 09WGT417-R001		Type: 0964M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20	Full Load Torque	59.51 LB-FT	
Volts	460	Start Configuration	direct on line	
Full Load Amps	23	Breakdown Torque	185 LB-FT	
R.P.M.	1760	Pull-up Torque	94.7 LB-FT	
Hz	60 Phase	Locked-rotor Torque	115 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	145 A	
Service Factor (S.F.)	1.15	No-load Current	7 A	
NEMA Nom. Eff.	93 Power Factor	Line-line Res. @ 25°C	0.41873 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	60°C	
S.F. Amps		Temp. Rise @ S.F. Load	76°C	
		Locked-rotor Power Factor	29.4	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	85	88	88	88	88
Efficiency	91.4	93.8	93.9	93	92.3	91	92.7
Speed	1792.1	1783.4	1774.6	1764.6	1754	1740.6	1758
Line amperes	8.93	12.8	17.6	22.9	28.7	35.1	26.4

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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