PRODUCT INFORMATION PACKET

Model No: 171789.60
Catalog No: 171789.60
Severe Duty Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM, 365T Frame, TEFC

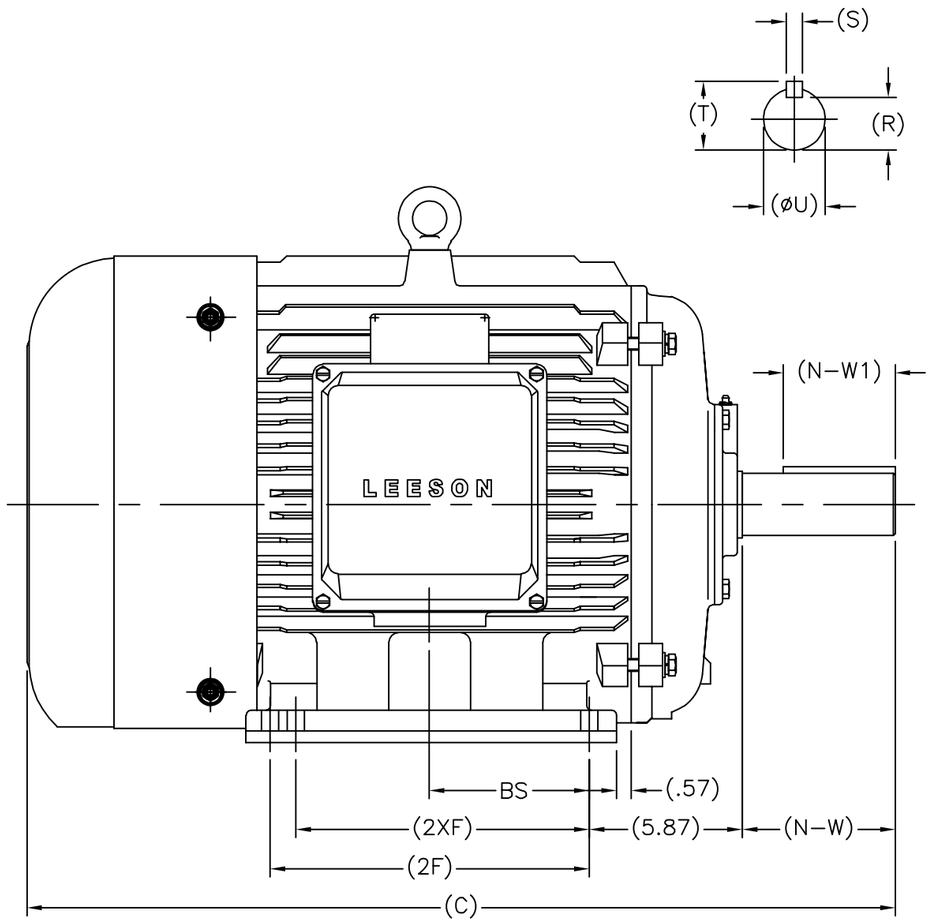
Nameplate Specifications

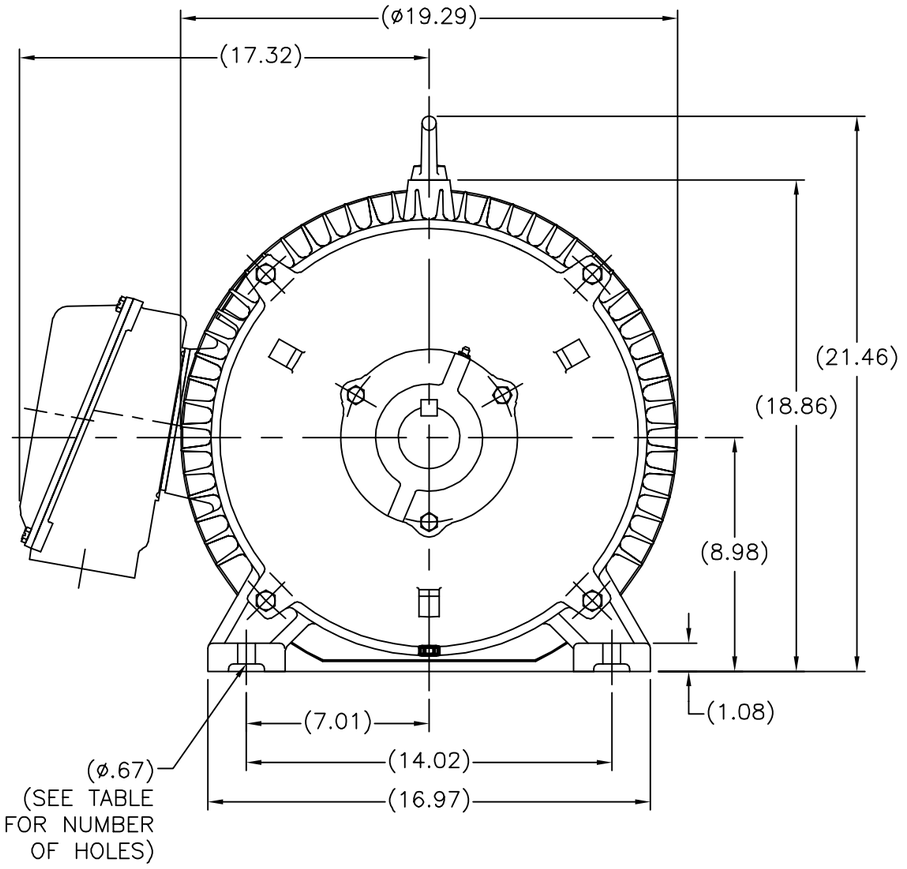
Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	208-230/460 & 190/380 V
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.15
Frame	365T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	135.0 - 126/63.0 & 122/61.0 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.1204 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	33.31 in
Shaft Diameter	2.375 in	Shaft Extension	5.88 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Outline Drawing	SS622180LE	Connection Drawing	00417203

SS622180LE





FRAME	C	2F	2XF	HOLES	N–W	N–W1	øU	R	S	T	BS
NT364TS–2	30.20	11.26	---	4	3.74	2.05	1.87	1.59	0.50	2.09	---
NT365TS–2	31.18	12.24	11.26	6							
NT364T–4, 6	32.32	11.26	---	4	5.87	4.29	2.37	2.01	0.63	2.64	5.60
NT365T–4, 6	33.31	12.24	11.26	6							6.10

NO.	REVISION	BY & DATE	CHK
1	ADDED BS DIM. UPDATED TITLE BLOCK, ECO–0048910	RFH 04/07/2014	EH

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

REGAL REGAL-BELOIT CORPORATION

DRAWN MSG 02/13/2007
CHK ML 02/16/2007
APPD SB 02/23/2007
SCALE N/A
REF
FMF HEBEI
PREV

TITLE OUTLINE
360 FR. – TEFC – (REDESIGNED)

MAT'L.
FINISH
CAD FILE SS622180LE

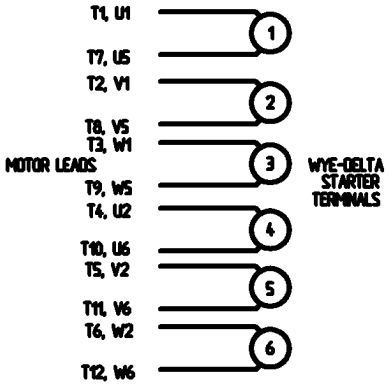
RFP
DIST

SIZE A | DRAWING NO. SS622180LE | PAGE 1 OF 1 | REV. 1

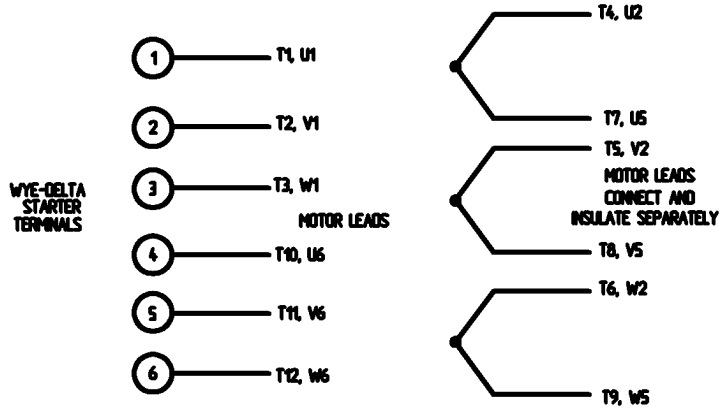
004172-03

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

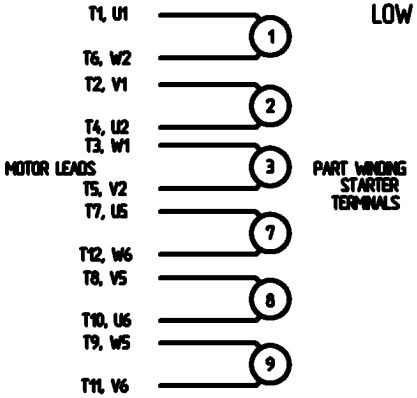


HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

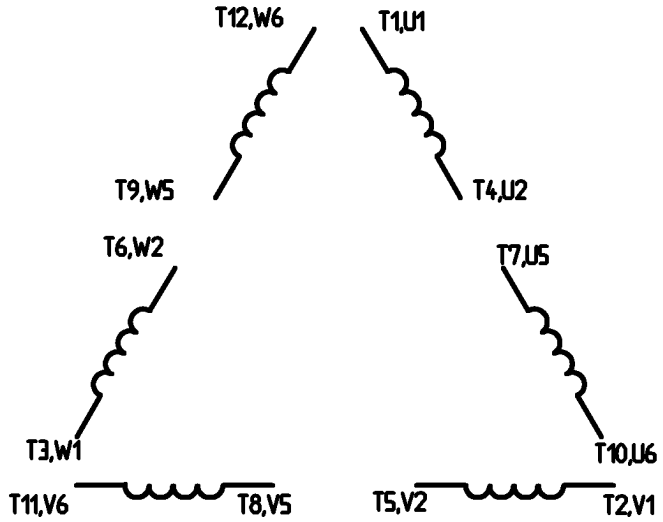
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS

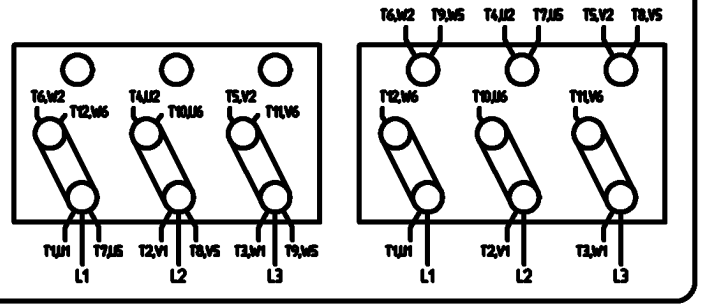


ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE (MUST BE REWIRED AS SHOWN)

HIGH VOLTAGE (FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



				TOLERANCES UNLESS SPECIFIED				
				DEC.	INCHES	LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	CJW 08/28/02
				X	± .1		CHK	
				XX	± .01		APPD	
				XXX	± .005	TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS	SCALE	1=1
				XXXX	± .0005		REF	
				ANG	± 1/2°	MAT'L	FMF	
NO.	REVISION	BY & DATE	CHK			FINISH	PREV	

RFP	CAD FILE 00417203	SIZE A	DRAWING NO. 004172-03	REV.
DIST				

```
ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

/CB
-dictionary-
/Pscript_WinNT_Compat
-dictionary-
```

Data Sheet

Date: 1/30/2018

171789.60

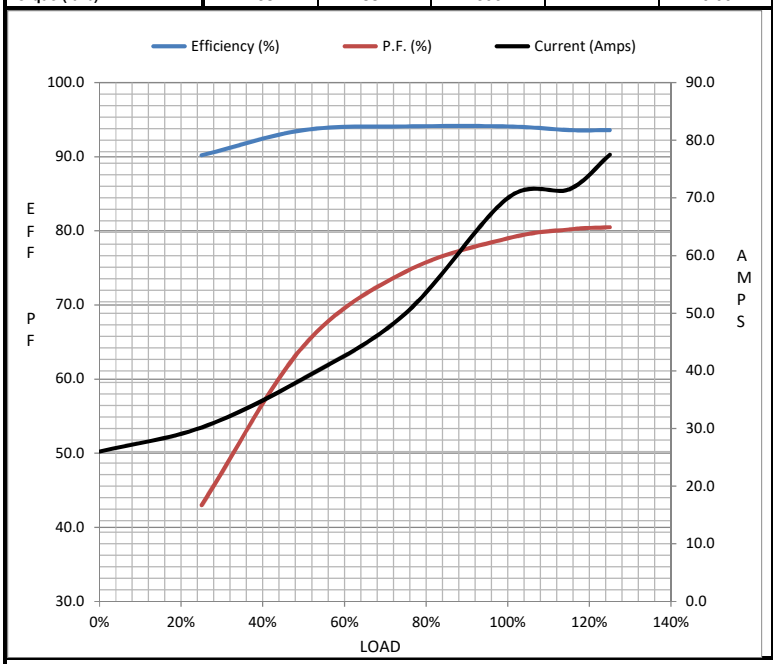
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	26.0	30.2	38.7	50.0	70.0	71.5	77.5	361	
Torque (ft-lb)	0.00	54.9	110	165	221	254	276	453	
RPM	1200	1198	1195	1192	1190	1,188	1187	0	
Efficiency (%)		90.2	93.6	94.1	94.1	93.6	93.6		
P.F. (%)	4.5	43.0	64.5	74.5	79.0	80.2	80.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	950	1145	1190	1200
Current (Amps)	361	273	227	70.0	26.0
Torque (ft-lb)	453	332	596	221	0.00



Information Block

HP	50.0	
Sync. RPM	1200	
Frame	365	
Enclosure	TEFC	
Construction	TFC	
Voltage	208-230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	76	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	T18306021 FR	
Sound Pressure @ 1M	999	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS622180LE	
Conn. Diag	00417203	

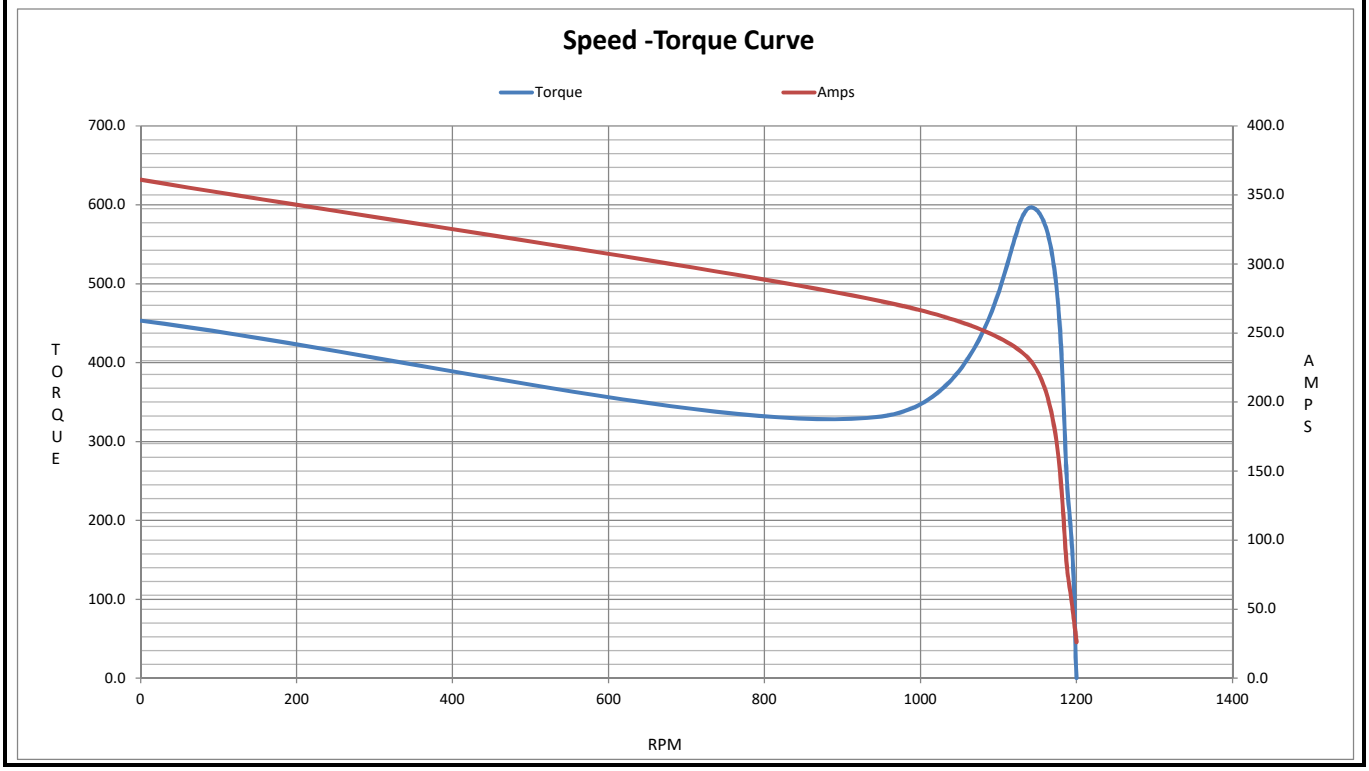
Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 171789.60

(Model No. may contain prefix and/or suffix characters)

Catalog No : 171789.60

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)
EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:

Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22