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## 

Product Information Packet
VHECP4313T
75HP,3550RPM,3PH,60HZ,365HP,1464M,TEFC,F

BAITDOR•RELIANCER Product Information Packet: VHECP4313T-75HP,3550RPM,3PH,60HZ,365HP,1464M,TEFC,F

| Part Detail |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Revision: | D |  | Status: | PRD/A | Change \#: |  |  | Proprietary: |  | No |  |  |
| Type: | AC |  | Prod. Type: | A36068M | Elec. Spec: |  | A36WG0761 | CD Diagram: |  |  |  |  |
| Enclosure: | TEFC |  | Mfg Plant: |  | Mech. Spec: |  |  | Layout: |  |  |  |  |
| Frame: | 365HP |  | Mounting: | F1 | Poles: |  | 02 | Created Date: |  | 10-19-2010 |  |  |
| Base: |  |  | Rotation: | R | Insulation: |  | F | Eff. Date: |  | 05-01-2012 |  |  |
| Leads: | 3\#2,6\#4 |  | Literature: |  | Elec. Diagram: |  |  | Replaced By: |  |  |  |  |
| Nameplate 000613007EW |  |  |  |  |  |  |  |  |  |  |  |  |
| CAT.NO. |  | VHECP4313T | SPEC NO. |  | P36G3417 |  |  |  |  |  |  |  |
| HP |  | 75 | AMPS |  | 161/80.7 | VOLTS |  | 230/460 | DESIGN |  | B |  |
| FRAME |  | 365HP | RPM |  | 3555 | HZ |  | 60 | AMB |  | 40 | SF 1.15 |
| DRIVE END BEARING |  | 65BC03J30X | PH |  | 3 | DUTY |  | CONT | INSUL.CLASS |  | F |  |
| OPP D.E. BEARING |  | 65BC03J30X | TYPE |  | P | ENCL |  | TEFC | CODE |  | F |  |
| D.E.BRG.DATA |  | 6313 | POWER FACTOR |  | 91.5 | NEMA NOM EFFICIENCY |  | 95 |  |  |  |  |
| O.D.E.BRG.DATA |  | 6313 | MAX CORR KVAR |  |  | GUARANTEED EFFICIENCY |  | 94.5 |  |  |  |  |
| 3/4 LOAD EFF. |  | 95.4 | NEMA NOM/CSA QUOTED EFF |  |  |  |  |  |  |  |  |  |
| SER.NO. |  |  | MOTOR WEIGHT |  |  |  |  |  |  |  |  |  |



BAILDOR•RELIANCEE Product Information Packet: VHECP4313T-75HP,3550RPM,3PH,60HZ,365HP,1464M,TEFC,F

| Parts List |  |  |
| :---: | :---: | :---: |
| Part Number | Description | Quantity |
| SA207167 | SA P36G3417 | 1.000 EA |
| RA194434 | RA P36G3417 | 1.000 EA |
| 613-6PU | N/P (RELEASE QTY 10,000) | 1.000 EA |
| 000613007EW | N/P BALDOR | 1.000 EA |
| 000692000FF | N/P (RELEASE QTY 1,000) | 1.000 EA |
| 000692000VD | N/P (REL QTY 4000) | 1.000 EA |
| 000901002AAA | N/P (RELEASE QTY 1,500) | 1.000 EA |
| 421948032 | LABEL, MYLAR | 1.000 EA |
| 004824015A | GREASE POLYREX EM | 0.544 LB |
| 032018008AK | HHCS 1/4-20X1 PLATED | 4.000 EA |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. | 4.000 EA |
| 032018030CK | HHCS 3/8-16X3-3/4 PLATED | 3.000 EA |
| 032018024CK | HHCS 3/8-16X3 PLTD. | 3.000 EA |
| 034180012DA | KEY 1X4X1/4X1-1/2 L | 1.000 EA |
| 034530052AB | P/NIP 1/8X6-1/2 GALV. | 1.000 EA |
| 034690002AB | PPLG 1/4" PLTD. | 1.000 EA |
| 047174002D | EXT SNAP RING(360-440) | 1.000 EA |
| 078559042AE | F/C 360078559001 A | 1.000 EA |
| 085922073B | BRKT 360085922072 WCC KB | 1.000 EA |
| 415045002E | SLGR | 1.000 EA |
| 415072001B | CLAMP | 1.000 EA |
| 415096002A | CPLG 1/8 HEX TYPE | 1.000 EA |
| 418151057A | PLASTIC DRAIN,ODE BRKT | 1.000 EA |
| 032018010CK | HHCS 3/8-16X1-1/4 PLTD. | 4.000 EA |

## BAITDOR•RELIANCER Product Information Packet: VHECP4313T-75HP,3550RPM,3PH,60HZ,365HP,1464M,TEFC,F

| Parts List (continued) |  |  |
| :---: | :---: | :---: |
| Part Number | Description | Quantity |
| 032018022CK | HHCS 3/8-16X2-3/4 PLTD | 4.000 EA |
| 702675001C | FAN 360 | 1.000 EA |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. | 4.000 EA |
| 034690002AB | PPLG 1/4" PLTD. | 1.000 EA |
| 089495002A | BRKT 360089495001 WCA | 1.000 EA |
| 410700004F | WSHR | 1.000 EA |
| 415045002E | SLGR | 1.000 EA |
| 418151057A | PLASTIC DRAIN,ODE BRKT | 1.000 EA |
| 033512004LB | HHTTS 1/4-20X1/2 PLTD. | 1.000 EA |
| 033512008LB | HHTTS 1/4-20X1 PLATED | 4.000 EA |
| 034000014 AB | WSH ID. 406 OD. 812 TH. 065 | 4.000 EA |
| 034017014 AB | LCKW 3/8 STD. PLATED | 4.000 EA |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 EA |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 EA |
| 048977006B | GRFTG - XP | 1.000 EA |
| 065776000C | TERBD 320-400 | 1.000 EA |
| 067053000B | GASK 320-400 | 1.000 EA |
| 076708000BB | C/B - 360 | 1.000 EA |
| 076709000A | C/B CVR - 360 | 1.000 EA |
| 405851012AN | SPACE | 4.000 EA |
| 415000003D | T/LUG 897-777 KPA25/G16 | 1.000 EA |
| 418150003A | GREASE FITTING CAP | 1.000 EA |
| 702641041A | D/CVR 360 SUB PAINT | 1.000 EA |
| MG1025G05 | PAINT 789.201 | 0.250 GA |

BAITDOR•RELIANCER Product Information Packet: VHECP4313T-75HP,3550RPM,3PH,60HZ,365HP,1464M,TEFC,F

| Parts List (continued) | Description |  |
| :--- | :--- | :--- |
| Part Number | HHCS $5 / 8-11$ X1-1/2L PLTD. |  |
| 032018012 EK | DRSCR \#6-1/4 304 S.S. |  |
| 033775004 EA | LCKW $5 / 8$ " |  |
| 034017018 AB | GREASE FITTING CAP |  |
| 418150003 A | WSH ID.406 OD.812 TH.065 | 4.000 EA |
| 034000014 AB | KEY 3/8X3/8X3 L | 4.000 EA |
| 034180024 FA | LFT/P -360 | 4.000 EA |
| 609013011 C | 1.000 EA |  |
| 14 PA1000 | PACKAGING 314 GROUP COMBINED PRINT | 4.000 EA |



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#### Abstract

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\begin{aligned}
& \text { This instruction manual is not intended to include a comprehensive listing of all details for all } \\
& \text { procedures required for installation, operation and maintenance. This manual describes general } \\
& \text { guidelines that apply to most of the motor products shipped by Baldor. If you have a question }
\end{aligned}
$$



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\begin{aligned}
& \text { Warning statement indicates a possible unsafe condition that can cause harm to personnel. } \\
& \text { Caution statement indicates a condition that can cause damage to equipment. }
\end{aligned}
$$



$$
\begin{aligned}
& \text { procedures required for installation, operation and maintenance. This manual describes general } \\
& \text { guidelines that apply to most of the motor products shipped by Baldor. If you have a question } \\
& \text { about a procedure or are uncertain about any detail, Do Not Proceed. Please contact your Baldor } \\
& \text { distributor for more information or clarification. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Before you install, operate or perform maintenance, become familiar with the following: } \\
& \text { NEMA Publication MG-2, Safety Standard for Construction and guide } \\
& \text { for Selection, Installation and Use of Electric Motors and Generators. } \\
& \text { • IEC 34-1 Electrical and IEC72-1 Mechanical specifications } \\
& \text { - ANSI C51.5, the National Electrical Code (NEC) and local codes and practices. } \\
& \text { Limited Warranty } \\
& \text { www.baldor.com/support/warranty standard.asp }
\end{aligned}
$$

80tNW

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：⿹NINY甘M
：ONINY甘M
：SNINY甘M
：⿹NINY甘M

 When lifting a WPII（Weather Proof Type 2）motor，do not lift the motor by inserting lifting lugs into
holes on top of the cooling hood．These lugs are to be used for hood removal only． uo！̣eцо
 equipment connected to the motor by this method．The lugs or eye bolts provided are designed to lift
only the motor．Never lift the motor by the motor shaft or the hood of a WPII motor．
driven equipment）from the motor shaft before lifting the motor．
Do not lift the motor and its driven load by the motor lifting hardware．The motor lifting hardware
is adequate for lifting only the motor．Disconnect the load（gears，pumps，compressors，or other

 Each Baldor Electric Motor is thoroughly tested at the factory and carefully packaged for shipment．When
you receive your motor，there are several things you should do immediately． If you have any questions or are uncertain about any statement or procedure，or if you require additional
information please contact your Baldor distributor or an Authorized Baldor Service Center． If a HI POT test（High Potential Insulation test）must be performed，follow the precautions and
procedure in NEMA MG1 and MG2 standards to avoid equipment damage． To prevent equipment damage，be sure that the electrical service is not capable of delivering more
than the maximum motor rated amps listed on the rating plate． should not exceed a $20^{\circ}$ angle from the shank of the eye bolt or lifting lug．Excessive lifting
angles can cause damage． ио！！әә！！р Би！ Do not lift the motor and its driven load by the motor lifting hardware．The motor lifting hardware
is adequate for lifting only the motor．Disconnect the load（gears，pumps，compressors，or other Do not over tension belts．Excess tension may damage the motor or driven equipment．
Do not over－lubricate motor as this may cause premature bearing failure．

 Motors that are to be used in flammable and／or explosive atmospheres must display the UL labe
on the nameplate along with CSA listed logo．Specific service conditions for these motors are
defined in NFPA 70 （NEC）Article 500． combustible vapors or dust．These motors are not designed for atmospheric conditions that
require explosion proof operation． the motor shaft cannot cause shaft rotation．If the load can cause shaft rotation，disconnect shaft before maintenance is performed．Unexpected mechanical rotation of
the motor parts can cause injury or motor damage．
Do not use non UL／CSA listed explosion proof motors in the presence flommable or Before performing any motor maintenance procedure，be sure that the equipment connected to persons with cardiac pacemakers，metal implants，and hearing aids．To avoid risk，stay way from
the area surrounding a permanent magnet motor． Pacemaker danger－Magnetic and electromagnetic fields in the vicinity of current carrying Use proper care and procedures that are safe during handling，lifting，installing，operating and
maintaining operations．Improper methods may cause muscle strain or other harm．
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Storage
Some motors have a shipping brace attached to the shaft to prevent damage during transportation.
The shipping brace, if provided, must be removed and stored for future use. The brace must be
reinstalled to hold the shaft firmly in place against the bearing before the motor is moved.
Store in a clean, dry, protected warehouse where control is maintained as follows:
a. Shock or vibration must not exceed 2 mils maximum at 60 hertz, to prevent the bearings from
brinelling. If shock or vibration exceeds this limit vibration isolation pads must be used.
b. Storage temperatures of $10^{\circ} \mathrm{C}\left(50^{\circ} \mathrm{F}\right)$ to $49^{\circ} \mathrm{C}\left(120^{\circ} \mathrm{F}\right)$ must be maintained.
c. Relative humidity must not exceed $60 \%$.
d. Motor space heaters (when present) are to be connected and energized whenever there is a
possibility that the storage ambient conditions will reach the dew point. Space heaters are optional.
Note: Remove motor from containers when heaters are energized, reprotect if necessary.
Measure and record the resistance of the winding insulation (dielectric withstand) every 30 days of
storage.
a. If motor insulation resistance decreases below the minimum resistance, contact your Baldor
District office.
b. Place new desiccant inside the vapor bag and re-seal by taping it closed.
c. If a zipper-closing type bag is used instead of the heat-sealed type bag, zip the bag closed
instead of taping it. Be sure to place new desiccant inside bag after each monthly inspection.
d. Place the shell over the motor and secure with lag bolts.
Where motors are mounted to machinery, the mounting must be such that the drains and breathers
are fully operable and are at the lowest point of the motor. Vertical motors must be stored in the
vertical position. Storage environment must be maintained as stated in step 2 .


Minimum resistance of motor winding insulation is 5 Meg ohms or the calculated minimum, which ever is
greater. Minimum resistance is calculated as follows: $\mathbf{R m}=\mathbf{k V}+1$ export box but the sides \& top must be secured to the wooden base with lag bolts (not nailed as export
boxes are) to allow opening and reclosing many times without damage to the "shell". A wooden crate "shell" should be constructed to secure the motor during storage. This is similar to an The electrical insulation may absorb an excessive amount of moisture leading to the motor winding Improper motor storage will result in seriously reduced reliability and failure. An electric motor that does
not experience regular usage while being exposed to normally humid atmospheric conditions is likely to Storage requirements for motors and generators that will not be placed in service for at least six months
from date of shipment.

 Do not lift the assembly using the motor lugs or eye bolts provided. Lugs or eye bolts are designed to
lift motor only. If the load is unbalanced (as with couplings or additional attachments) additional slings

If the motor must be mounted to a plate with the driven equipment such as pump, compressor etc.,
it may not be possible to lift the motor alone. For this case, the assembly should be lifted by a sling
around the mounting base. The entire assembly can be lifted as an assembly for installation.

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BALDOR




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$$
\begin{aligned}
& \text { AC Motor Connection Diagram } \\
& \text { SINGLE WINDING MULTI-SPEEDS CONSTANT TORQUE }
\end{aligned}
$$

$$
2 \mathrm{~V}(\mathrm{~T} 5) \quad(\mathrm{T} 2) 1 \mathrm{~V} \quad(\mathrm{~T} 6) 2 \mathrm{~W}
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 10. Single phase operation of polyphase equipment
11. Variable frequency operation

 Ambient temperatures above nameplate value Motor load exceeding service factor nameplate value
Ambient temperatures above nameplate value conditions can cause the marked surface temperature to be exceeded. If applied in a Division 1 or 2 / Zone 1 or 2 and Zone 21 or 22 environment, this excessive
temperature may cause ignition of hazardous materials. Operating the motor at any of the following These motors are designed to operate at or below the maximum surface temperature (or T-Code) stated
on the nameplate. Failure to operate the motor properly can cause this maximum surface temperature to Sine Wave Power Operation for Division 1 or 2 and Zone 1 or 2 and Zone 21 or 22 Hazardous
Location. This area classification is one where the risk of exposure to ignitable concentrations of dust are not likely
to occur under normal operating conditions and relies heavily on the housekeeping practices within the
installation. This area classification is one where the risk of exposure to ignitable concentrations of dust are not likely In the North American area classification system, Class III exists for fibers and flyings.
In the IEC designation, both dusts and flyings are absorbed into Group III. concept is referred to as dust ignition proof or Ex tD. External surface temperature remains the limiting
factor. Thermal limiting devices such as thermostats, thermistors or RTDs may be provided on these
motors to limit the external surface temperature during overload conditions. If thermostats are provided
as a condition of certification, it is the installer's responsibility to make sure that these devices are
properly connected to a suitable switching device. This area classification is one where the risk of ignitable concentrations of dust is present at all or some of
the time. The protection concepts used for Class II Division 1 is similar to flamepath, except with
additional dust exclusion paths designed for the rotating shaft. In the international designations, this avoid the risk of spark or ignition.
Class II Division 1 / Zone 21 [Equipment Group III, Equipment Protection Level (EPL) Db ]
This area classification is one where the risk of ignitable concentrations of dust is present at all or some of motors are used to protect the motor only. For motors using flying lead construction, it is important to use applications, it is very important to use a motor that has been evaluated thermally for use with an inverter
or converter, if variable speed operation is desired. Thermostats used for Class I Division 2 and Ex nA considered. In many cases, the internal temperatures are higher than the external temperatures and
therefore become the limiting factor in determination of temperature code designation. In these
applications, it is very important to use a motor that has been evaluated thermally for use with an invert This protection concept relies on having no sources of ignition present (EPL) Gch as arcing parts or hot
surfaces. For this protection concept, internal temperatures as well as external temperatures are Explosion proof and Flame proof motors shipped without a conduit box require use of a certified box of
suitable dimensions and that is appropriate for the classification.
Class I Division $\mathbf{2}$ / Zone $\mathbf{2}$ Ex nA, [Equipment Protection Level (EPL) Gc ] reference gas and ignited in laboratory conditions to verify that the flame is not transmitted outside the
motor enclosure and to determine the maximum internal pressure encountered.
Explosion proof and Flame proof motors shipped without a conduit box require use of a certified box of Class I Division 1 motors, with minor differences in the flameproof joints and cable entry designs.
Flameproof and explosion proof motors are both type tested. Representative motors are connected to a that motor shutdown on thermal trip be accomplished without an intermediate software command.
Flameproof motors, internationally referred to as Ex d use a protection concept similar to that used
Class I Division 1 motors, with minor differences in the flameproof joints and cable entry designs. If thermostats are provided as a condition of certification, it is the installer's responsibility to make sure
that these devices are properly connected to a suitable switching device. The ATEX directive requires
that motor shutdown on thermal trip be accomplished without an intermediate software command.
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Some motor designs use different bearings on each motor end. This is normally indicated on the motor nameplate.
In this case, the larger bearing is installed on the motor Drive endplate. For best relubrication results, only use the
appropriate amount of grease for each bearing size (not the same for both).



Relubrication Intervals $\quad \begin{gathered}\text { Recommended relubrication intervals are shown in Table 3-2. It is important to realize that } \\ \text { the recommended intervals of Table 3-2 are based on average use. }\end{gathered}$

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 On motors received from the factory with the shaft blocked, specifications, master plans, etc. refer to the applicable
master plans and specifications involved.

 GENERAL
The user must select a motor starter and ove

 For V-beit drive, mount the sheave pulley close to the
motor housing. Allow clearance for end to end movement of
the motor shaft. Do not overtighten belts as this may cause the load, check rotation direction prior to coupling the load to
the motor shaft.

 MOUNTING
Foot mounte


 Explosion protected motors, as indicated by a Nationally moisture, dirt and/or corrosive materials are present in


 Mttp://www.baldor.com/support/literature_load.asp
MOTOR ENCLOSURE Refer to MN408 and MN1383 for Compliance with European
Directives. Copies are available at:
http://www.baldor.com/support/literature_load.asp INSTALLATION OUTSIDE THE USA: coincident with eye bolt center line. Eye bolt capacity
reduces as deviation from this alignment is increased. Be
sure eye bolts are tight and prevented from turning before
lifting motor weight. These lifting provisions should never be used
when lifting or handling the motor and driven equipment. Eye
bolt lifting capacity rating is based on a lifting alignment
coincident with eye bolt center line. Eye bolt capacity intended only for lifting the motor and motor mounted
standard accessories not exceeding, in total $30 \%$ of the

 mark. Ground the motor according to NEC and local codes. In the
USA consult the National Electrical Code, Article 430 for
information on grounding of motors and generators, and
Article 250 for general information on grounding. In making
the ground connection, the installer should make certain tha
there is a solid and permanent metallic connection between
the ground point, the motor or generator terminal housing,
and the motor or generator frame. In non-USA locations
consult the appropriate national or local code applicable.
ADJUSTMENT
The neutral is adjustable on some DC motors. AC motors
have no adjustable parts.
Noise
For specific sound power or pressure level information,
contact your local Baldor representative.
VIBRATION
This motor is balanced to NEMA MG1, Part 7 standard.
BRUSHES (DC Motors)
Periodically, the brushes should be inspected and all brush
dust blown out of the motor. If a brush is worn $1 / 2$, (length
specified in renewal parts data), replace the brushes.
Reassemble and seat the new brushes using a brush
seating stone. Be sure the rocker arm is set on the neutral
mark nameplate rating.
 determine the cause. Possible causes are: low voltage at the
motor, motor connections are not correct or the load is too
heavy. Check the motor current after a few minutes of proper direction of reth. If not, stop the motor immediately and
and run smoothe
determine the cause. Possible causes are: low voltage at the local codes. When the motor is connected to the load for
proper direction of rotation and started, it should start quickly details on lead marking. The wiring, fusing and grounding
must comply with the National Electrical Code or IEC and
 Connect the motor as shown in the connection diagrams. If
this motor is installed as part of a motor control drive system,
connect and protect the motor according to the control This motor must be installed in accordance with National
Electric Code, NEMA MG-2, IEC standards and local codes.
WIRING INSTALLATION

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\begin{aligned}
& \text { TESTING } \\
& \text { If the motor has been in storage for an extensive period or } \\
& \text { has been subjected to adverse moisture conditions, check } \\
& \text { the motor insulation resistance with a meg ohm meter. } \\
& \text { Depending on storage conditions it may be necessary to } \\
& \text { regrease or change rusted bearings. Contact Baldor District } \\
& \text { Office if resistance is less than } 5 \text { meg ohms. } \\
& \text { WARNING: Do not touch electrical connections before } \\
& \text { you first ensure that power has been } \\
& \text { disconnected. Electrical shock can cause } \\
& \text { serious or fatal injury. } \\
& \text { WARNING: Be sure the system is properly grounded } \\
& \text { before applying power. Electrical shock can } \\
& \text { cause serious or fatal injury. }
\end{aligned}
$$ http://www.baldor.com/support/literature_load.asp?ManNumber=MN408

Safety Notice Be sure to read and understand all of the Safety Notice statements in MN408. A copy is available at
Stiterature load asp?ManNumber=MN408

## AC \& DC Motor Installation \& Maintenance



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## 〇NIL $4 \forall 1 S$



 IP（Ingress Protection）
IP designations include t



MOUNTING

 Condensation drain plugs are provided at four points on
each endplate for various motor mounting configurations．
For Washdown and totally enclosed，fan cooled or
non－ventilated motors，the plugs in the lowest portion of the DRAIN PLUGS
Condensation drain plugs are provided at four points on Before connecting the motor to an electrical supply，inspect
for any damage resulting from shipment．Turn the shaft by
hand to ensure free rotation．Motor leads must be isolated
before the shaft will turn freely on permanent magnet motors INSPECTION contact with body parts or clothing can cause serious or fatal injury．
WARNING：Guards must be installed for rotating parts such as couplings，pulleys，external fans，and unused shaft
extensions，should be permanently guarded to prevent accidental contact by personnel．Accidental



\footnotetext{






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Single Phase Non-Reversible
Refer to the connection diagram provided on the Baldor motor.




$$
\begin{aligned}
& \text { Lead Marking } \\
& \text { Three Phase }
\end{aligned}
$$

$$
\begin{aligned}
& \text { hree Phase } \\
& \text { or single winding } 3 \text { phase motors, lead markings can be } \\
& \text { end }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Refer to the connection diagram provided on the Baldor motor. } \\
& \text { Some examples are as follows: }
\end{aligned}
$$

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