Omni+Series 인터페이스 도면 - 60 mm 고정자(stator)
Sheet1…...........
Drawing View4
Drawing View8
Sheet2
Drawing View1
Drawing View 7
Drawing View9
Sheet3
Omni+Series 인터 페이스 도면 - 60 mm 로터(rotor
Sheet1
Drawing View 1
Section View A-A
$0 \mathrm{mni}+$ Series 인터페이스 도면 -60 mm 모터 키트(motor kit)
Sheet1…....................
Drawing View1
Section View A-A
Sheet2…...............
Drawing View4
Omni+Series 인터페이스 도면 - 70 mm 고정자(stator)
Sheet1…...................
Drawing View4
Drawing View6
Drawing View6
Drawing View8*
Sheet2 ${ }^{\text {..................... }}$
Drawing View1
Drawing View
Drawing View9
Series 인터페이스 도면 70 mm 로터(rotor)

Sheet1
Drawing View4*
Section View A-A
.
인터페이스 도면 -70 mm 모터 키트(motor kit)
Drawing View1
Drawing View1
Drawing View4
Drawing View4
…........................................................................................................................................................................................................................................................................................................................................... 12.$0 \mathrm{mni}+$ Series 인터 페이스 도면 -100 mm 고정자(stator) .13
스 도면 - 100 mm 고정자(stator)1
+13
+13
Drawing View6Drawing View8 14
Drawing View1Drawing View 7Drawing View9
mni+Series 인터페이스 도면 - 100 mm 로터(rotor) ..... $\cdot . .15$ Sheet1
Drawing View3Srawing View4${ }^{-} \cdot 16$ 16
$0 \mathrm{mni}+$ Series 인터페이스 도면 -100 mm 모터 키트(motor kit)$-\quad 17$
$-\quad 17$
+17Sheet1Drawing View9Section

$$
\text { heet2 } \cdots \text {.......... }
$$

rawing View5 ${ }^{-}$

- 18
130 mm stator int .....  19
Sheet1Drawing View4Drawing View4Drawing View619neet2Drawing View1Drawing View7Drawing View9Drawing View
Sheet3...................
130mm_rotor_interface_drawingSheet1Drawing View3Drawing View4


130 mm _motor_kit_ interface_drawing- 19
Sheet1 ${ }^{-}$ ..... $\cdot 23$Drawing View9$\begin{array}{r}-. \\ \hline\end{array}$
Section View A-A
eet2 $\cdots$ Drawing View5 . ..... $\begin{array}{r}. \\ +23 \\ + \\ \hline\end{array}$
Section View B-B ..... $\begin{array}{r}24 \\ -. .24 \\ \hline\end{array}$

THIS SHEET APPLIES TO MODELS WITHOUT HALLS

## LEAD COLOR CODE

## POWER LEADS

16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT-PHASE C

## NOTES:

1. STATOR MOUNTING REQUIREMENTS, REFER TO P060-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P060-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN
TABULATION TABLE ON SHEET 3
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATIONS


PHASE RELATION OF BACK EMF PHASE-TO-
PHASE RELATION OF BACK EMF PHASE-TOOF MOTOR VIEWED FROM LEAD END


CW ROTATION OF ROTOR WHEN ENERGIZED WITH DC SUPPLY IN SEQUENCE SHOWN IN CHART BELOW


| E | 007805 | SEEDCN | 2021-DEC-20 | RMH |
| :---: | :---: | :---: | :---: | :---: |
| D | 007730 | ADDED PART NUMBERS TO TAB BLOCK, MOVED TO SHEE 3 ROHS AND ESD TO NOTES EADS STRAGHT <br> 3, ROHS AND ESD TO NOTEE, LEADS STRAIGHT | 2021-AUG-30 | AFT |
| C | 007626 | ADDED OPH-0600 3 -COOOO TO TABULATON BLOCK | 2021-MAY-12 | SMP |
| Rev | DCN | DESCRIPTION OF CHANGE | date | sign |







POWER LEADS:
76 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH
762 mm MIN LENGTH

$$
\begin{aligned}
& \text { BLK - PHASE A } \\
& \text { RED - PHASE B } \\
& \text { WHT - PHASE C }
\end{aligned}
$$

HALL LEADS:
28 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH

RED - POWER (3-27 VDC)
BLK - GROUND
BRN - HALL 1
ORG - HALL 2
YEL - HALL 3


NOTES: (UNLESS OTHERWISE SPECIFIED)

1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE
SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE
MOTOR PERFORMANCE ILLUSTRATED IN PO60-1-052-01.
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST

VERSION OF REGULATORY SPECIFICATION.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS

SHALL BE PROVIDED WITH EACH LOT.
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY

THIS SHEET APPLIES TO MODELS WITHOUT HALLS

## LEAD COLOR CODE

POWER LEADS
16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT-PHASE C


Bs
WYECONNECTION C OF STATOR WINDINGS


PHASE RELATION OF BACK EMF PHASE-TO
PHASE VOITAGES DURING CW ROTATION OF MOTOR VIEWED FROM LEAD END
Vbemf
PHASES
A+/B-

CW ROTATION OF ROTOR WHEN ENERGIZED WITH DC SUPPLY IN SEQUENCE SHOWN IN CHART BELOW


2/9/2021 Plot staM


NOTES

1. STATOR MOUNTING REQUIREMENTS, REFER TO P070-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P070-1-052-01 DOCUMENT. STATOR

PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN
TABULATION TABLE ON SHEET 3.
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATIONS


## THIS SHEET APPLIES TO MODELS WITH HALLS/COMMUTATION

## LEAD COLOR CODE

POWER LEADS
16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT - PHASE C

## HALL LEADS

28 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
NOTE: HALL DEVICES ARE OPEN COLLECTOR
AND REQUIRE PULL-UP RESISTORS TO OPERATE
BLK - RETURN
RED - POWER (3.5 TO 27 VDC)
BRN - HALL 1
ORG - HALL 2
YEL - HALL 3

PHASE RELATION OF BACK EMF PHASE-TO PHASE RELATION OF BACK EMF PHASE-TO-
PHASE VOLTAGES DURING CW ROTATION OF MOTOR VIEWED FROM LEAD END
 IN CHART BELOW

NOTES:

1. STATOR MOUNTING REQUIREMENTS, REFER TO P070-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P070-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN TABULATION TABLE ON SHEET 3.
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATION
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY

## $\rightarrow$




CW ROTATION OF ROTOR WHEN ENERGIZED WITH DC SUPPLY IN SEQUENCE SHOWN

|  | A | B | C |
| :---: | :---: | :---: | :---: |
| 1 | + | - |  |
| 2 | + |  | - |
| 3 |  | + | - |
| 4 | - | + |  |
| 5 | - |  | + |
| 6 |  | - | + |

HALL DEVICE CIRCUIT DIAGRAM




MODEL: (THIS DRAWING APPLIES FOR THE FOLLOWING MODEL NUMBERS) OPN-070XXX-X000 (SHEET 1)
OPH-070XXX-X000 (SHEET 2)

POWER LEADS:
16 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH

BLK - PHASE A RED - PHASE B WHT - PHASE C

NOTES: (UNLESS OTHERWISE SPECIFIED)
 1.17 MIN

BARE STEEL UNTING SURFACE BOTH SIDES $\frac{1.27}{1.27}$ ROTOR HUB AXIAL OFFSET FROM BARE STEEL NON-LEAD END

$$
\left(\begin{array}{c}
0.51 \\
\text { NOMINAL } \\
\text { AIR GAP }
\end{array}\right)
$$



SECTION A-A

1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE
MOTOR PERFORMANCE ILLUSTRATED IN PO70-1-052-01.
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST VERSION OF REGULATORY SPECIFICATIONS.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS SHALL BE PROVIDED WITH EACH LOT

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| B | 007805 | SEE DCN | 2021-DEC-20 | RMH |
| A | 007630 | NNTALALREEEASE | 2021-JUN-21 | AFT |
| REV | DCN | DESCRIPTION OF CHANGE | DATE | SIGN |
| 4 |  |  |  |  |


| AL |  |  |  |  | MM |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TILE: MOTOR KIT MOUNTING INTERFACE |  |  |  |  |
|  | Matreal: Na | orwn: arimao | 51921 |  |  |  |
| Without rie Pror werte |  |  | ${ }^{5126}$ | P070-1-0 |  |  |



6

THIS SHEET APPLIES TO MODELS WITHOUT HALLS

## LEAD COLOR CODE

POWER LEADS
16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS BLK - PHASE A
RED - PHASE B
WHT - PHASE C

As NOTES
 OF STATOR WINDINGS

1. STATOR MOUNTING REQUIREMENTS, REFER TO P100-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P100-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY

TABULATION TABLE ON SHEET 3 SPECIFICATIONS.


$1.17 \pm 0.05$
POWDERCOAT OD OFFSE FROM STACK OD
ALL AROUND BOTH SIDES

PHASE RELATION OF BACK EMF PHASE-TO
PHASE RELATION OF BACK EMF PHASE-TO-
PHASE VOLTAGES DURING CW ROTATION OF MOTOR VIEWED FROM LEAD END

CW ROTATION OF ROTOR WW ROTATION OF ROTOR WHEN ENERGIZED WITH DC
SUPPLY IN SEQUENCE SHOWN SUPPLY IN SEQUENCE SHO
IN CHART BELOW
IN CHART BELOW

|  | A | B | C |
| :---: | :---: | :---: | :---: |
| 1 | + | - |  |
| 2 | + |  | - |
| 3 |  | + | - |
| 4 | - | + |  |
| 5 | - |  | + |
| 6 |  | - | + |

27/72021 PLot STAMP


## THIS SHEET APPLIES TO MODELS WITH HALLS/COMMUTATION

## LEAD COLOR CODE

POWER LEADS
16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT - PHASE C

SIATOR MOUNTING REQUIREMENTS, REFER TO P100-1-051-01 DOCUMENT
2. STATOR PERFORMANCE REFER TO P100-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN TABULATION TABLE ON SHEET 3.
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATIONS.
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY.

## HALL LEADS

28 AWG, M22759/11 TEFLON COATED
762mm MIN LENGTH, FLYING LEADS
NOTE: HALL DEVICES ARE OPEN COLLECTOR AND REQUIRE PULL-UP RESISTORS TO OPERATE.

BLK - RETURN
RED - POWER (3.5 TO 27 VDC)
BRN - HALL 1
ORG - HALL 2
YEL-HALL 3


PHASE RELATION OF BACK EMF PHASE-TOPHASE RELATION OF BACK EMF PHASE-TO-
PHASE VOLTAGES DURING CW ROTATION OF MOTOR VIEWED FROM LEAD END

CW ROTATION OF ROTOR WHEN ENERGIZED WITH DC
SUPPLY IN SEQUENCE SHOWN IN CHART BELOW

HALL DEVICE CIRCUIT DIAGRAM



12/7/2021 PLOT STAMP


MODEL: (THIS DRAWING APPLIES FOR THE FOLLOWING MODEL NUMBERS)
OPH-100XXX-X000 (SHEET 2)
POWER LEADS:
16AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH
BLK - PHASE A
RED - PHASE B RED - PHASE B


ROTOR HUB
AXIAL OFFSE FROM BARE STEEL NON-LEAD END
1.17 MIN BARE STEEL NTING SURFAC
$\qquad$ $\binom{0.76}{$ NOMINAL } (AIR GAP)
NOTES: (UNLESS OTHERWISE SPECIFIED)
1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE
MOTOR PERFORMANCE ILLUSTRATED IN P100-1-052-01
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST
VERSION OF REGULATORY SPECIFICATION.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS SHALL BE PROVIDED WITH EACH LOT.

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 1 | 007805 | NTIAL REEEASE | 2021-DEC-20 | RMH |
| REV | DCN | DESCRRPIION OF CHANGE | DAtE | sign |
| 4 个 3 |  |  |  |  |



## POWER LEADS

16 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH

> BLK - PHASE A
> RED - PHASE B
> WHT - PHASE C

HALL LEADS:
28 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH

RED - POWER (3-27 VDC)
BLK - GROUND
BRN - HALL 1
ORG - HALL 2
YEL - HALL 3


NOTES: (UNLESS OTHERWISE SPECIFIED)
1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE MOTOR PERFORMANCE ILLUSTRATED IN P100-1-052-01.
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST

VERSION OF REGULATORY SPECIFICATION.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS

SHALL BE PROVIDED WITH EACH LOT.
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY

## THIS SHEET APPLIES TO MODELS WITHOUT HALLS

## LEAD COLOR CODE

1. STATOR MOUNTING REQUIREMENTS, REFER TO P130-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P130-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN TABULATION TABLE ON SHEET 3.
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATIONS
POWER LEADS
14 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT - PHASE C
THERMISTOR LEADS (IF APPLICABLE) SENSOR PN: CANTHERM STS 1 LINEAR PTC 28 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH, FLYING LEADS 2 BLUE LEADS, NO POLARITY REQUIREMENT


NOTES:
4
$\qquad$ 3
$\qquad$
$\qquad$ 2 $\qquad$

## THIS SHEET APPLIES TO MODELS WITH HALLS/COMMUTATION

## LEAD COLOR CODE

POWER LEADS
14 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
BLK - PHASE A
RED - PHASE B
WHT - PHASE C

## HALL LEADS

28 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS NOTE: HALL DEVICES ARE OPEN COLLECTOR
AND REQUIRE PULL-UP RESISTORS TO OPERATE

## BLK - RETURN

RED - POWER (3.5 TO 27 VDC)
BRN - HALL 1
ORG - HALL 2
YEL - HALL 3
THERMISTOR LEADS (IF APPLICABLE) SENSOR PN: CANTHERM STS 1 LINEAR PTC 28 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
2 BLUE LEADS, NO POLARITY REQUIREMENT

PHASE RELATION OF BACK EMF PHASE-TOPHASE VOLTAGES DURING CW ROTATION OF MOTOR VIEWED FROM LEAD END


NOTES:
. STATOR MOUNTING REQUIREMENTS, REFER TO P130-1-051-01 DOCUMENT.
2. STATOR PERFORMANCE REFER TO P130-1-052-01 DOCUMENT. STATOR PERFORMANCE IS ACHIEVED WITH ASSOCIATED ROTOR LISTED IN TABULATION TABLE ON SHEET 3.
3. STATOR IS REACH AND ROHS COMPLIANT TO LATEST REGULATORY SPECIFICATION
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY


$49^{\circ}$


EW ROTATION OF ROTOR WHEN ENERGIZED WITH DC SUPPLY IN SEQUENCE SHOWN
IN CHART BELOW

|  |  |  |  |
| :--- | :---: | :---: | :---: |
| 1 | $A$ | $B$ | $C$ |
| 2 | + | - |  |
| 3 | + |  | - |
| 4 | - | + | - |
| 5 | - |  | + |
| 6 |  | - | + |



Bs WYECONNECTION Cs OF STATOR WINDINGS

## TABULATION BLOCK (WITHOUT HALLS)

| MODEL NUMBER | STATOR DRAWING NUMBER | THERMISTOR ADDED | ASSOCIATED ROTOR DRAWING NUMBER | STACK <br> LENGTH | OVERALL LENGTH |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OPN-130013-A000 | P130-1-095-01 | NO | P130-1-096-01 | $12.5 \pm .13$ | 25.7 MAX |
| OPN-130013-A001 | P130-1-095-02 | YES |  |  | 29.3 MAX |
| OPN-130013-8000 | P130-1-095-03 | NO |  |  | 25.7 MAX |
| OPN-130013-B001 | P130-1-095-04 | YES |  |  | 29.3 MAX |
| OPN-130013-C000 | P130-1-095-05 | NO |  |  | 25.7 MAX |
| OPN-130013-C001 | P130-1-095-06 | YES |  |  | 29.3 MAX |
| OPN-130025-A000 | P130-1-095-07 | NO | P130-1-096-02 | $25.0 \pm .13$ | 38.2 MAX |
| OPN-130025-A001 | P130-1-095-08 | YES |  |  | 41.7 MAX |
| OPN-130025-8000 | P130-1-095-09 | NO |  |  | 38.2 MAX |
| OPN-130025-8001 | P130-1-095-10 | YES |  |  | 41.7 MAX |
| OPN-130025-C000 | P130-1-095-11 | NO |  |  | 38.2 MAX |
| OPN-130025-C001 | P130-1-095-12 | YES |  |  | 41.7 MAX |
| OPN-130038-A000 | P130-1-095-13 | NO | P130-1-096-03 | $37.5 \pm .13$ | 50.7 MAX |
| OPN-130038-A001 | P130-1-095-14 | YES |  |  | 54.3 MAX |
| OPN-130038-B000 | P130-1-095-15 | NO |  |  | 50.7 MAX |
| OPN-130038-B001 | P130-1-095-16 | YES |  |  | 54.3 MAX |
| OPN-130038-C000 | P130-1-095-17 | NO |  |  | 50.7 MAX |
| OPN-130038-C001 | P130-1-095-18 | YES |  |  | 54.3 MAX |
| OPN-130050-A000 | P130-1-095-19 | NO | P130-1-096-04 | $50.0 \pm .13$ | 63.2 MAX |
| OPN-130050-A001 | P130-1-095-20 | YES |  |  | 66.8 MAX |
| OPN-130050-B000 | P130-1-095-21 | NO |  |  | 63.2 MAX |
| OPN-130050-B001 | P130-1-095-22 | YES |  |  | 66.8 MAX |
| OPN-130050-C000 | P130-1-095-23 | NO |  |  | 63.2 MAX |
| OPN-130050-C001 | P130-1-095-24 | YES |  |  | 66.8 MAX |

## TABULATION BLOCK (WITH HALLS)

| MODEL NUMBER | STATOR DRAWING NUMBER | THERMISTOR ADDED | ASSOCIATE ROTOR DRAWING NUMBER | STACK LENGTH | OVERALL LENGTH |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OPH-130013-A000 | P130-1-095-25 | NO | P130-1-096-01 | $12.5 \pm .13$ | 30.5 MAX |
| OPH-130013-A001 | P130-1-095-26 | YES |  |  |  |
| OPH-130013-B000 | P130-1-095-27 | NO |  |  |  |
| OPH-130013-B001 | P130-1-095-28 | YES |  |  |  |
| OPH-130013-C000 | P130-1-095-29 | NO |  |  |  |
| OPH-130013-C001 | P130-1-095-30 | YES |  |  |  |
| OPH-130025-A000 | P130-1-095-31 | NO | P130-1-096-02 | $25.0 \pm .13$ | 43.0 MAX |
| OPH-130025-A001 | P130-1-095-32 | YES |  |  |  |
| OPH-130025-B000 | P130-1-095-33 | NO |  |  |  |
| OPH-130025-B001 | P130-1-095-34 | YES |  |  |  |
| OPH-130025-C000 | P130-1-095-35 | NO |  |  |  |
| OPH-130025-C001 | P130-1-095-36 | YES |  |  |  |
| OPH-130038-A000 | P130-1-095-37 | NO | P130-1-096-03 | $37.5 \pm .13$ | 55.5 MAX |
| OPH-130038-A001 | P130-1-095-38 | YES |  |  |  |
| OPH-130038-B000 | P130-1-095-39 | NO |  |  |  |
| OPH-130038-B001 | P130-1-095-40 | YES |  |  |  |
| OPH-130038-C000 | P130-1-095-41 | NO |  |  |  |
| OPH-130038-C001 | P130-1-095-42 | YES |  |  |  |
| OPH-130050-A000 | P130-1-095-43 | NO | P130-1-096-04 | $50.0 \pm .13$ | 68.0 MAX |
| OPH-130050-A001 | P130-1-095-44 | YES |  |  |  |
| OPH-130050-B000 | P130-1-095-45 | NO |  |  |  |
| OPH-130050-B001 | P130-1-095-46 | YES |  |  |  |
| OPH-130050-C000 | P130-1-095-47 | NO |  |  |  |
| OPH-130050-C001 | P130-1-095-48 | YES |  |  |  |



## MODEL: (THIS DRAWING APPLIES FOR THE FOLLOWING MODEL NUMBERS) <br> OPN-130XXX-X000 (SHEET 1) OPH-130XXX-X000 (SHEET 2)

POWER LEADS:
14AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH
BLK - PHASE A
RED - PHASE B
WHT - PHASE C

THERMISTOR LEADS (IF APPLICABLE) SENSOR PN: CANTHERM STS 1 LINEAR PTC 28 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH, FLYING LEADS 2 BLUE LEADS, NO PÓLARITY REQUIREMENT



SECTION A-A

ROTOR H AXIAL OFFS FROM BARE STEEL NON-LEAD END

NOTES: (UNLESS OTHERWISE SPECIFIED)
1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE MOTOR PERFORMANCE ILLUSTRATED IN P130-1-052-01.
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST

VERSION OF REGULATORY SPECIFICATION.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS SHALL BE PROVIDED WITH EACH LOT.

|  |  |  |  | C |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| A | 7955 | TRANS FER TO PRODUCTION | 2022-OCT-24 | AFt |
| 1 | 7914 | INTIAL RELEASE | 2022-AUG-22 | AFT |
| Rev | DCN | DESCRIPTION OF CHANGE | DATE | sIGN |
|  |  |  |  |  |

CUSTOMER PCN LEVEL: STANDARD

POWER LEADS:
14AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH

> BLK - PHASE A
> RED - PHASE B
> WHT - PHASE C

HALL LEADS: 28 AWG, M22759/11 TEFLON COATED 762 mm MIN LENGTH

RED - POWER (3-27 VDC)
BLK - GROUND
BRN - HALL 1
ORG-HALL 2
YEL - HALL 3

THERMISTOR LEADS (IF APPLICABLE)
SENSOR PN: CANTHERM STS 1 LINEAR PTC
28 AWG, M22759/11 TEFLON COATED
762 mm MIN LENGTH, FLYING LEADS
2 BLUE LEADS, NO POLARITY REQUIREMENT


NOTES: (UNLESS OTHERWISE SPECIFIED)
1 SPECIFIED DIMENSIONS ARE REQUIRED TO ACHIEVE MOTOR PERFORMANCE ILLUSTRATED IN P130-1-052-01.
2. SHALL BE ROHS AND REACH COMPLIANT TO LATEST VERSION OF REGULATORY SPECIFICATION.
3. MATERIAL AND SURFACE TREATMENT CERTIFICATIONS

SHALL BE PROVIDED WITH EACH LOT.
4. ESD SENSITIVE DEVICE, HANDLE ACCORDINGLY


