

## PESS145TC2M-2

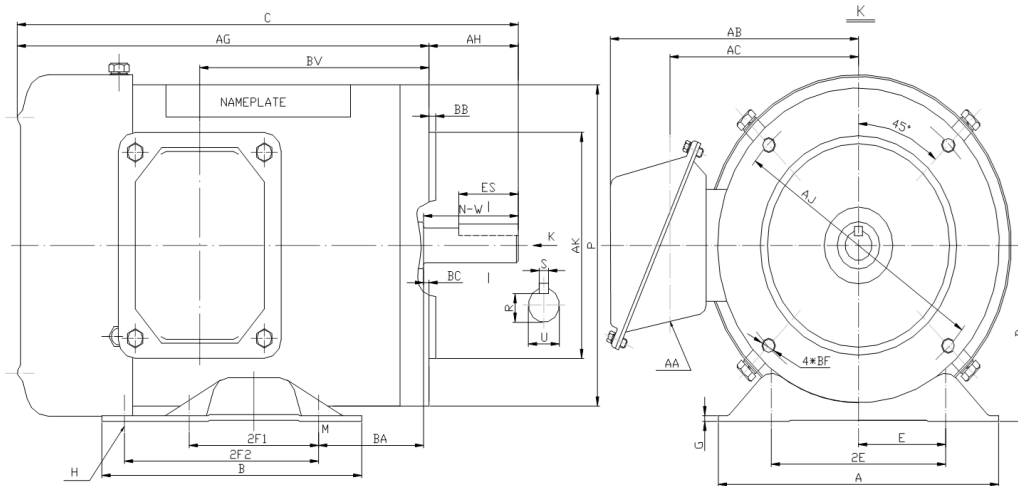
WASHDOWN DUTY MOTOR

NEMA PREMIUM EFFICIENCY

STAINLESS STEEL CONSTRUCTION - C-FLANGE WITH FEET

TOTALLY ENCLOSED FAN COOLED - IP66 CONSTRUCTION

INVERTER DUTY 10:1 CT; 20:1 VT - NEMA MG1 PART 31



### DIMENSIONS

| HP | RPM  | Frame | Mounting |      |       |      |      |           |      |      |      |      |      |       |       |      |
|----|------|-------|----------|------|-------|------|------|-----------|------|------|------|------|------|-------|-------|------|
|    |      |       | A        | B    | C     | D    | G    | H         | E    | 2E   | 2F1  | 2F2  | P    | AK    | AJ    | AH   |
| 2  | 3600 | 145TC | 6.50     | 6.50 | 13.81 | 3.50 | 0.12 | 1.22*0.34 | 2.75 | 5.50 | 3.00 | 5.00 | 6.50 | 4.500 | 5.875 | 2.12 |

| Mounting |      |      |      |          | Shaft Extension, Key Set |       |       |      |      | Conduit Box |      |      |      | Bearings |          | Mount |
|----------|------|------|------|----------|--------------------------|-------|-------|------|------|-------------|------|------|------|----------|----------|-------|
| AG       | BA   | BB   | BC   | BF       | U                        | R     | S     | ES   | N-W  | AA          | AB   | AC   | BV   | DE       | ODE      |       |
| 11.69    | 2.75 | 0.16 | 0.12 | 4*3/8-16 | 0.875                    | 0.771 | 0.188 | 1.41 | 2.25 | 0.86        | 5.75 | 4.25 | 7.50 | 6205-2RS | 6205-2RS | F1    |

**BEARING LUBRICATION:** The bearings come lubricated with Mobil Polyrex EM Polyurea Grease.



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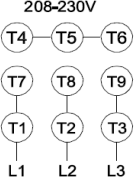
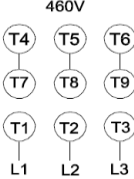
**INVERTER DUTY 10:1 CT; 20:1 VT - NEMA MG1 PART 31**

### PERFORMANCE DATA

| HP | RPM  | Frame | Voltage     | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient |
|----|------|-------|-------------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 2  | 3480 | 145TC | 208-230/460 | 60             | 1.15           | F                | B           | 3.3      | K         | TEFC           | 66        | 40° C        |

| Amps (460V) |      | Efficiency (%) |      |      |      | Power Factor |      |      | Torque (ft-lb) |       |       | DE Bearing | ODE Bearing | Connection  | Weight (lbs.) |
|-------------|------|----------------|------|------|------|--------------|------|------|----------------|-------|-------|------------|-------------|-------------|---------------|
| FLA         | LRA  | 100%           | 75%  | 50%  | Min. | 100%         | 75%  | 50%  | FLT            | LRT % | BDT % |            |             |             |               |
| 2.4         | 25.0 | 85.5           | 79.0 | 75.0 | 82.5 | 0.90         | 0.85 | 0.78 | 2.9            | 285   | 300   | 6205-2RS   | 6205-2RS    | 9 Lead 2Y/Y | 46            |

### NAME PLATE

|                                                                                                                   |  |           |  |                        |  |           |  |                       |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------|--|-----------|--|------------------------|--|-----------|--|-----------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|--|--|--|--|-------------------------------------------------------------------------------------|--|--|--|--|--|-------------------------------------------------------------------------------------|--|--|--|--|--|--------------------------------------------------------------------------------------|--|--|--|--|--|---------|--|--|--|--|--|
|  North American Electric, Inc. |  |           |  |                        |  |           |  |                       |  |  |  |                                                                                       |  | CONNECTION<br>DIAGRAMS                                                              |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| INVERTER DUTY 20:1 VT; 10:1 CT                                                                                    |  |           |  |                        |  |           |  |                       |  | WASHDOWN DUTY<br>STAINLESS STEEL MOTORS                                             |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| CAT NO: PESS145TC2M-2                                                                                             |  |           |  | FRAME 145TC            |  |           |  | PHASE 3               |  |                                                                                     |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| HZ 60                                                                                                             |  | S.F. 1.15 |  | HZ 50                  |  | S.F. 1.00 |  | ENCL TEFC             |  | IP 66                                                                               |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| HP 2                                                                                                              |  | RPM 3480  |  | HP 2                   |  | RPM 2870  |  | DUTY CONT             |  | DES B                                                                               |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| VOLTS 208-230/460                                                                                                 |  |           |  | VOLTS 190/380          |  |           |  | AMB 40° C             |  | INS F                                                                               |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| FLA 4.9 - 4.8 / 2.4                                                                                               |  |           |  | FLA 5.8/2.9            |  |           |  | DE BEARING 6205-2RS   |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| CODE K                                                                                                            |  | P.F. 0.90 |  | CODE K                 |  | P.F. 0.91 |  | ODE BEARING 6205-2RS  |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| EFF 85.5                                                                                                          |  | MIN 82.5  |  | EFF 82.5               |  | MIN 79.5  |  | LUB: Mobil Polyrex EM |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| MOTOR WEIGHT 46 LBS                                                                                               |  |           |  | CONNECTION 9 Lead 2Y/Y |  |           |  | SER NO                |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |
| Special purpose motor designed for washdown applications and extremely corrosive environments.                    |  |           |  |                        |  |           |  |                       |  |                                                                                     |  |                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CC 082A |  |  |  |  |  |
| Hernando, Mississippi                                                                                             |  |           |  |                        |  |           |  |                       |  |                                                                                     |  |                                                                                       |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                     |  |  |  |  |  |                                                                                      |  |  |  |  |  |         |  |  |  |  |  |

### APPLICATIONS:

Applications include washdown applications, food processing, chemical processing, pharmaceuticals, poultry processing, meat processing, dairy applications, bakeries, snack foods, bottling and extremely corrosive environments.