



GENERAL INFORMATION

| | | | |
|--------------------|-----------------|------------------------|--------|
| Type | D3EA180M2AB35YY | Efficiency Class | IE3 |
| Pout [kW] | 22 | Vibration Class | A |
| Speed [rpm] | 2964 | Weight [kg] | |
| Frame | 180M | Degree of Protection | IP55 |
| Current [A] | 37,6 | Cooling Method | IC 411 |
| cos φ | 0,91 | Insulation Class | F |
| Rotation | CW-CCW | Temperature Class | B |
| Duty | S1 | Construction | IM B35 |
| Ambient Temp. [°C] | -20...+40 | Altitude above sea [m] | 1000 |

| | | | | | | | |
|---|--------|----------|----------|-------|---------|------|------------|
|   | | | | | | | |
| 3~MOT | Type | DM 180-2 | | | | | |
| | | | | | | | η% |
| S1 | IM B35 | IP 55 | I.C.L.F. | | | | IE3 - 92,7 |
| V | Hz | A | kW | cos φ | 1 / min | LOAD | EFF. |
| Δ 400 | 50 | 37,6 | 22 | 0,91 | 2964 | %75 | 92,5 |
| Y 690 | 50 | 21,7 | 22 | 0,91 | 2964 | | |
| Δ 460 | 60 | 32,5 | 22 | 0,0 | 3565 | %50 | 92,4 |
| Δ 480 | 60 | 37,6 | 26,4 | 0,90 | 3560 | | |

ELECTRICAL DATA (RAW MEASUREMENT DATA)

| V1 | %Load | T [Nm] | I [A] | rpm | P2 [W] | cos φ | Efficiency | Hz |
|-----|-------|--------|-------|------|--------|-------|------------|----|
| 400 | 100 | 70,88 | 37,6 | 2964 | 22000 | 0,91 | 92,7 | 50 |
| 400 | 75 | 52,98 | 28,7 | 2974 | 16500 | 0,9 | 92,2 | 50 |
| 400 | 61 | 35,22 | 21,57 | 2983 | 11000 | 0,81 | 91 | 50 |

| | | | | | |
|----------------------|---------|-------|------------------|---------|-------|
| Locked Rotor Current | Ia [A] | 413,9 | Breakdown Torque | Mk [Nm] | 255,2 |
| | Ia / In | 11,01 | | Mk / Mn | 3,60 |
| Locked Rotor Torque | Ma [Nm] | 176,1 | No Load Current | [A] | 10,2 |
| | Ma / Mn | 2,48 | No Load Power | [W] | 768 |

MECHANICAL DATA

| | | | |
|---------------|----------------|--------------------------------|-----------|
| DE Bearing | 6310-ZZ | Sound Pressure - 50 Hz - dB[B] | 93 |
| NDE Bearing | 6210-ZZ | Sound Pressure - 60 Hz - dB[B] | 96 |
| Fixed Bearing | YES | Housing Material | Aluminium |
| Lubrication | - | DE Shield Material | Cast Iron |
| Grease Amount | - | Terminal Box Material | Aluminium |
| Grease Type | - | Cable Entry | M32 |
| Feather Key | 14*9*100 | Cable Gland Position | 4 |
| Balance | G 2,5 Half Key | | |

MECHANICAL DIMENSIONS

| A | AA | AB | AC | AD | B | B' | BA | BB | C | D | d | E | EB | F | GA |
|-----|------|----|-------|-------|------|------|-------|------|-----|-----|-----|-----|------|----|------|
| 279 | 73,5 | 63 | 345 | - | 241 | - | 63 | 291 | 121 | 48 | M16 | 110 | 100 | 14 | 51,5 |
| GD | H | HA | HC | HD | K | K1 | L | LA | LB | M | N | P | S | S1 | T |
| 9 | 180 | 25 | 357,9 | 434,8 | 37,5 | 14,5 | 717,5 | 18,5 | 699 | 300 | 250 | 350 | 18,5 | 4 | 5 |

