# SKA DDR 430 RATINGS AND SPECIFICATIONS

| | | | |
|---|---|---|---|
| TIME RATING | Continuous | AMBIENT TEMPERATURE | 0 to 40 °C |
| INSULATION CLASS | F | AMBIENT HUMIDITY | 20 to 80% RH (non condensing) |
| POLES | 56 | THERMAL PROTECTION | PT 1000 |
| INSULATION SYSTEM UL /CSA | cURus , DV155J File nr.:E216686 | CE certified | |

| | | SKA DDR 430.30.210.52 | SKA DDR 430.30.210.53 | SKA DDR 430.30.210.54 | SKA DDR 430.30.210.55 | SKA DDR 430.30.210.56 |
|---|---|---|---|---|---|---|
| Stall torque | Nm | 210 | 210 | 210 | 210 | 210 |
| Peak torque | Nm | 458 | 458 | 458 | 436 | 458 |
| Stall current | Arms | 13,3 | 6,68 | 4,01 | 2,23 | 9,07 |
| Peak current | Arms | 40,4 | 20,2 | 12,1 | 6,37 | 27 |
| Maximum speed @230 Vac 3phase | rpm | 180 | 90 | 50 | - | 100 |
| Maximum speed @400 Vac 3phase | rpm | 300 | 150 | 90 | 50 | 150 |
| Torque constant ± 5% | Nm/Arms | 11,3 | 22,7 | 37,9 | 68,4 | 23,16 |
| Voltage constant ± 5% | Vrms/krpm | 950 | 1900 | 3150 | 5700 | 1400 |
| Phase/phase resistance ± 5% | Ohm | 1,11 | 4,47 | 12,5 | 40,3 | 3,25 |
| Phase/phase inductance | mH | 16,0 | 66,0 | 183 | 593 | 22,8 |
| Electrical time constant | msec | 14,4 | 14,8 | 14,6 | 14,7 | 7,0 |
| Thermal resistance | °C/W | 0,23 | 0,23 | 0,23 | 0,23 | 0,23 |

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

| | | SKA DDR 430.60.340.52 | SKA DDR 430.60.340.53 | SKA DDR 430.60.340.54 | SKA DDR 430.60.340.55 | SKA DDR 430.60.340.56 |
|---|---|---|---|---|---|---|
| Stall torque | Nm | 340 | 340 | 340 | 340 | 340 |
| Peak torque | Nm | 868 | 868 | 868 | 868 | 868 |
| Stall current | Arms | 21,8 | 10,9 | 6,58 | 3,64 | 14,68 |
| Peak current | Arms | 76,8 | 38,2 | 22,9 | 12,7 | 37,5 |
| Maximum speed @230 Vac 3phase | rpm | 180 | 90 | 50 | - | 100 |
| Maximum speed @400 Vac 3phase | rpm | 300 | 150 | 90 | 50 | 150 |
| Torque constant ± 5% | Nm/Arms | 11,3 | 22,7 | 37,9 | 68,4 | 23,16 |
| Voltage constant ± 5% | Vrms/krpm | 950 | 1900 | 3150 | 5700 | 1400 |
| Phase/phase resistance ± 5% | Ohm | 0,7 | 2,65 | 5,22 | 16,9 | 1,47 |
| Phase/phase inductance | mH | 10 | 32 | 102 | 330 | 14,50 |
| Electrical time constant | msec | 12 | 12 | 19,5 | 19,5 | 9,9 |
| Thermal resistance | °C/W | 0,21 | 0,21 | 0,21 | 0,21 | 0,21 |

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

# SKA DDR 430 RATINGS AND SPECIFICATIONS

| | | | |
|---|---|---|---|
| TIME RATING | Continuous | AMBIENT TEMPERATURE | 0 to 40 °C |
| INSULATION CLASS | F | AMBIENT HUMIDITY | 20 to 80% RH (non condensing) |
| POLES | 56 | THERMAL PROTECTION | PT 1000 |
| INSULATION SYSTEM UL /CSA | cURus , DV155J File nr.:E216686 | CE certified | |

| | | SKA DDR 430.90.450.53 | SKA DDR 430.90.450.54 | SKA DDR 430.90.450.55 | SKA DDR 430.90.450.56 |
|---|---|---|---|---|---|
| Stall torque | Nm | 450 | 450 | 450 | 450 |
| Peak torque | Nm | 1254 | 1254 | 1254 | 1254 |
| Stall current | Arms | 14,3 | 8,63 | 4,78 | 19,43 |
| Peak current | Arms | 55,2 | 33,1 | 18,3 | 54,1 |
| Maximum speed @230 Vac 3phase | rpm | 90 | 50 | - | 100 |
| Maximum speed @400 Vac 3phase | rpm | 150 | 90 | 50 | 150 |
| Torque constant ± 5% | Nm/Arms | 22,7 | 37,9 | 68,4 | 23,16 |
| Voltage constant ± 5% | Vrms/krpm | 1900 | 3150 | 5700 | 1400 |
| Phase/phase resistance ± 5% | Ohm | 1,19 | 4,14 | 16,4 | 0,98 |
| Phase/phase inductance | mH | 26,2 | 73,0 | 200 | 9,8 |
| Electrical time constant | msec | 22,0 | 22,1 | 22,0 | 22,0 |
| Thermal resistance | °C/W | 0,136 | 0,136 | 0,136 | 0,136 |

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

| | | SKA DDR 430.120.560.53 | SKA DDR 430.120.560.54 | SKA DDR 430.120.560.55 |
|---|---|---|---|---|
| Stall torque | Nm | 560 | 560 | 560 |
| Peak torque | Nm | 1649 | 1649 | 1649 |
| Stall current | Arms | 17,82 | 10,7 | 5,94 |
| Peak current | Arms | 72,6 | 43,5 | 24,1 |
| Maximum speed @230 Vac 3phase | rpm | 90 | 50 | - |
| Maximum speed @400 Vac 3phase | rpm | 150 | 90 | 50 |
| Torque constant ± 5% | Nm/Arms | 22,7 | 37,9 | 68,4 |
| Voltage constant ± 5% | Vrms/krpm | 1900 | 3150 | 5700 |
| Phase/phase resistance ± 5% | Ohm | 1,37 | 2,42 | 7,80 |
| Phase/phase inductance | mH | 26 | 57 | 183 |
| Electrical time constant | msec | 19 | 23,6 | 23,5 |
| Thermal resistance | °C/W | 0,17 | 0,17 | 0,17 |

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

# SKA DDR 430 RATINGS AND SPECIFICATIONS

| | | | |
|---|---|---|---|
| TIME RATING | Continuous | AMBIENT TEMPERATURE | 0 to 40 °C |
| INSULATION CLASS | F | AMBIENT HUMIDITY | 20 to 80% RH (non condensing) |
| POLES | 42 | THERMAL PROTECTION | PT 1000 |
| INSULATION SYSTEM UL /CSA | cURus , DV155J File nr.:E216686 | CE certified | |

| | | SKA DDR 430.150.660.54 | SKA DDR 430.150.660.55 |
|---|---|---|---|
| Stall torque | Nm | 660 | 660 |
| Peak torque | Nm | 2025 | 2025 |
| Stall current | Arms | 12,7 | 7,00 |
| Peak current | Arms | 53,4 | 29,6 |
| Maximum speed @230 Vac 3phase | rpm | 50 | - |
| Maximum speed @400 Vac 3phase | rpm | 90 | 50 |
| Torque constant ± 5% | Nm/Arms | 37,9 | 68,4 |
| Voltage constant ± 5% | Vrms/krpm | 3150 | 5700 |
| Phase/phase resistance ± 5% | Ohm | 2,03 | 6,21 |
| Phase/phase inductance | mH | 47,3 | 152 |
| Electrical time constant | msec | 23,3 | 24,5 |
| Thermal resistance | °C/W | 0,15 | 0,15 |

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.winding

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

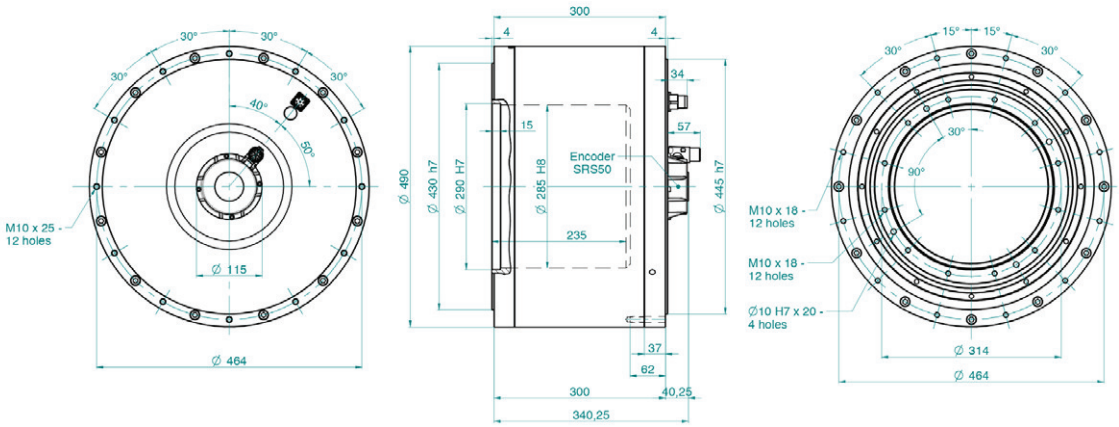
| | | SKA DDR 430.180.760.54 | SKA DDR 430.180.760.55 |
|---|---|---|---|
| Stall torque | Nm | 760 | 760 |
| Peak torque | Nm | 2400 | 2400 |
| Stall current | Arms | 14,6 | 8,06 |
| Peak current | Arms | 64 | 35,1 |
| Maximum speed @230 Vac 3phase | rpm | 50 | - |
| Maximum speed @400 Vac 3phase | rpm | 90 | 50 |
| Torque constant ± 5% | Nm/Arms | 37,6 | 68,4 |
| Voltage constant ± 5% | Vrms/krpm | 3150 | 5700 |
| Phase/phase resistance ± 5% | Ohm | 2,5 | 8,5 |
| Phase/phase inductance | mH | 32 | 105 |
| Electrical time constant | msec | 12,8 | 12,5 |
| Thermal resistance | °C/W | 0,10 | 0,08 |

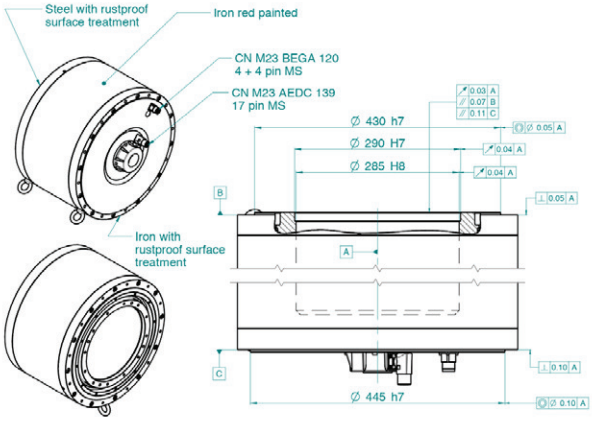
Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.winding

Output continuous rating with 1000x1000x300mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

# SKA DDR 430 DIMENSIONS AND CONFIGURATIONS

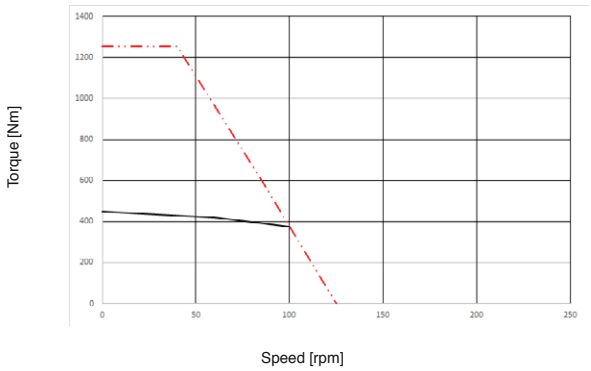
## SKA DDR 430 BLIND HOLLOW SHAFT reference drawing 402



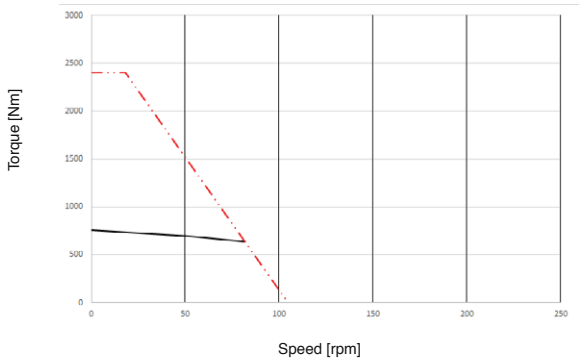



# SKA DDR 430 TORQUE AND SPEED CHARTS

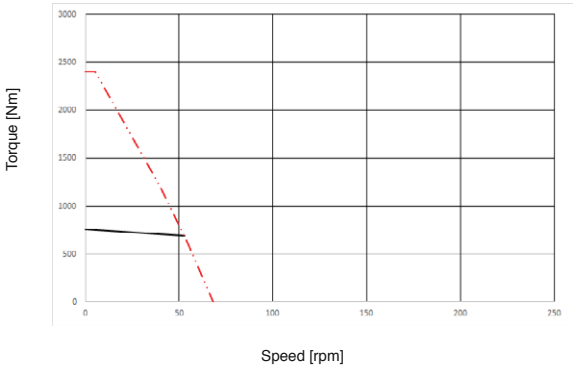
## SKA DDR 430.90.54 400 Vac




## SKA DDR 430.180.54 400 Vac




## SKA DDR 430.180.55 400 Vac




CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE