



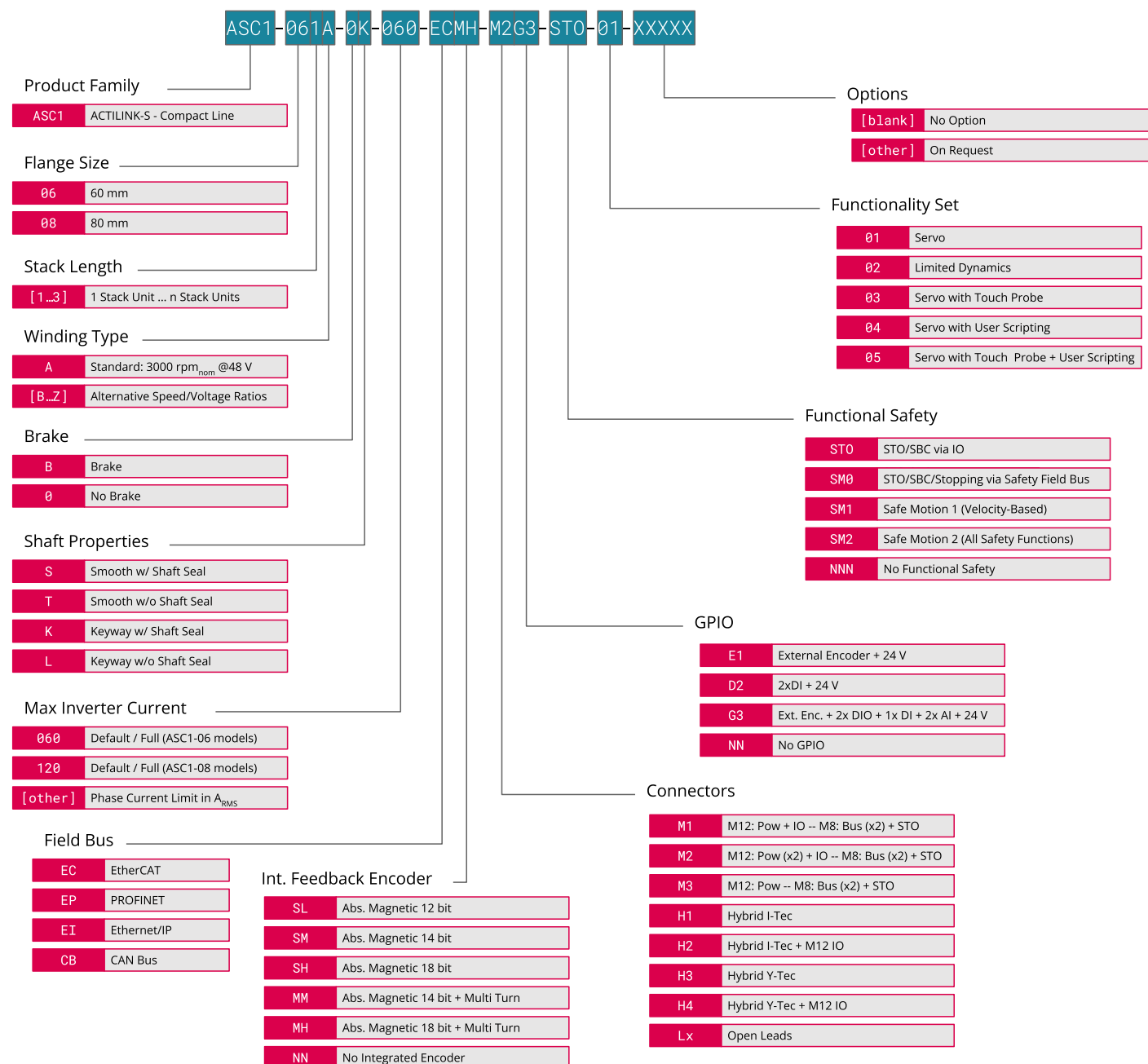
ACTILINK-SC

INTEGRATED SERVO MOTOR
PRODUCT INFORMATION

OVERVIEW

| VARIANT | RATED TORQUE | RATED VELOCITY | RATED POWER | RATED DC CURRENT | PEAK TORQUE | PEAK POWER |
|---------|--------------|----------------|-------------|--------------------|-------------|------------|
| SC 6-1 | 0.65 Nm | 3000 rpm | 200 W | 5 A _{DC} | 2.5 Nm | 524 W |
| SC 6-2 | 1.3 Nm | 3000 rpm | 400 W | 10 A _{DC} | 5 Nm | 1047 W |
| SC 6-3 | 1.9 Nm | 3000 rpm | 600 W | 15 A _{DC} | 8 Nm | 1676 W |
| SC 8-1 | 2.4 Nm | 3000 rpm | 750 W | 18 A _{DC} | 9.5 Nm | 2487 W |
| SC 8-2 | 3.2 Nm | 3000 rpm | 1000 W | 24 A _{DC} | 13 Nm | 3403 W |

TYPE KEY



Note: Availability, lead times, MoQs differ per configuration. Standard configurations (see next pages) preferred for most applications. Please contact Synapticon for custom configurations.

ACTILINK-SC 6-1

INTEGRATED SERVO MOTOR



ESSENTIAL SPECIFICATIONS:

The ACTILINK-SC 6-1 line core specifications include the following:

| Continuous Operation* | |
|-------------------------|-------------------|
| Continuous Stall Torque | 0.65 Nm |
| Rated Torque | 0.65 Nm |
| Rated Velocity | 3000 rpm |
| Max Velocity | 4500 rpm |
| Rated Power | 200 W |
| Rated Voltage | 48 V |
| Rated DC Current | 5 A _{DC} |
| Peak Operation | |
| Peak Torque | 2.5 Nm |
| Peak Power | 520 W |

* at 40°C ambient

| Mechanical | no Brake | Brake |
|-----------------|------------------------|------------------------|
| Weight | 1.1 kg | 1.5 kg |
| Inertia | 0.29 kgcm ² | 0.31 kgcm ² |
| Max Radial Load | 245 N | |
| Max Axial Load | 74 N | |
| IP Rating | IP 65*** | |

CONNECTOR OPTIONS:



Hybrid Connectors



ISO Connectors

| | |
|------------------------|-----------------|
| Operating Temperature | 0 C° - 40 C° ** |
| Max operating altitude | 1000 m ** |
| Storage Temperature | -20 C° - 40 C° |
| Relative Humidity | 20%-80% |

** Possible to operate at higher altitude and temperature with derating

*** Shaft seal IP64

ORDERING INFORMATION (MPN)

ASC1-061A-0K-025-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, no brake)

ASC1-061A-BK-025-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, brake)

ASC1-061A-0K-025-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, no brake)

ASC1-061A-BK-025-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, brake)

ASC1-061A-0K-025-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, no brake)

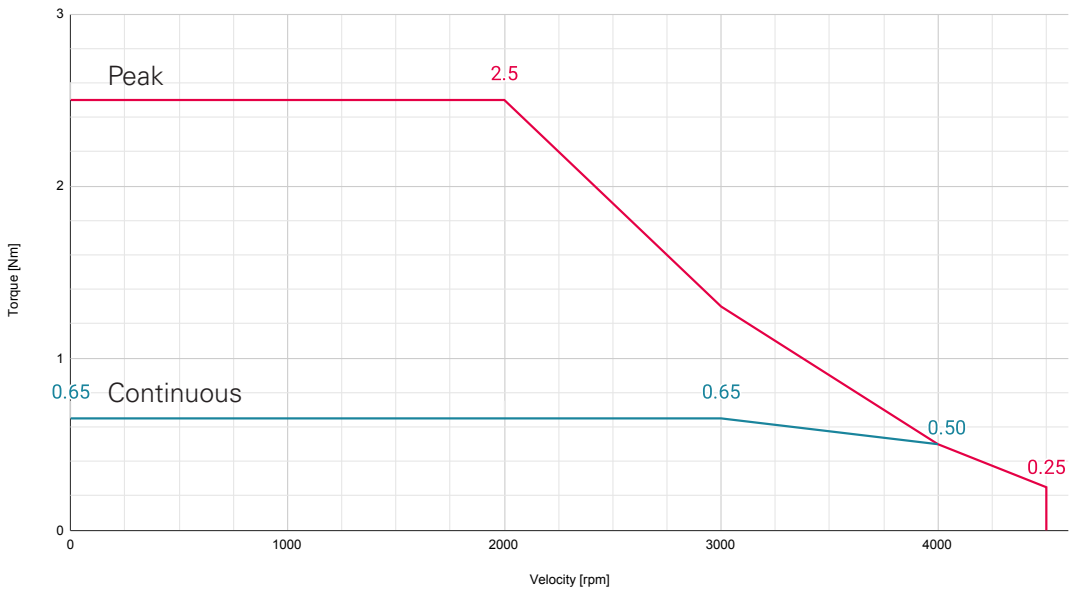
ASC1-061A-BK-025-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, brake)

ASC1-061A-xx-xxx-xxxx-xxxx-xxx-xx (custom configurations on request)

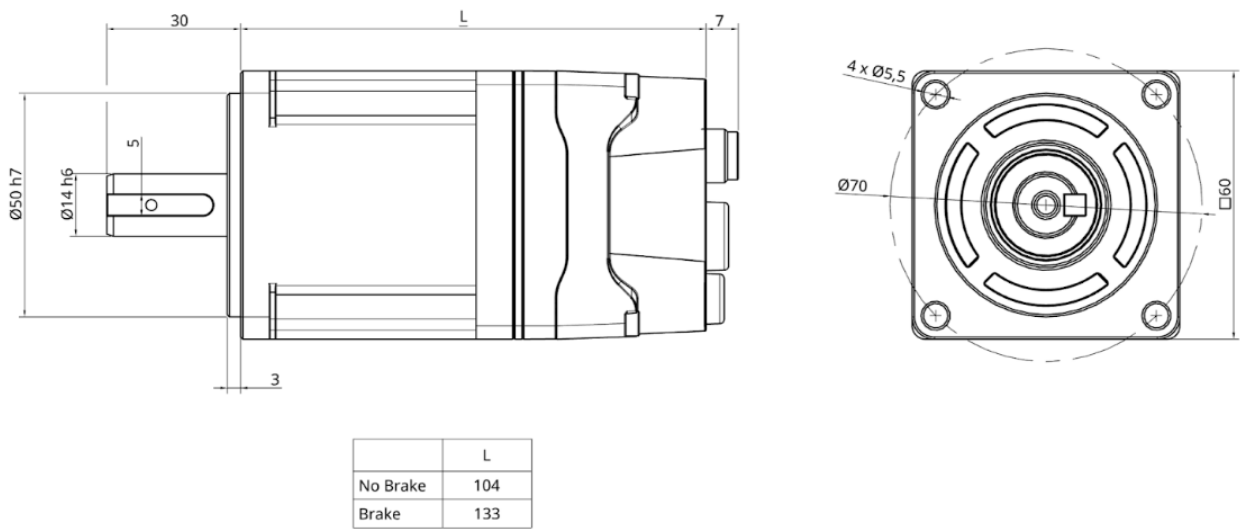
Standard configuration's MPNs are provided for the EtherCAT variants.

For other field buses, please replace „ECMH“ by „EPMH“ (PROFINET), „EIMH“ (Ethernet/IP) or „CBMH“ (CAN bus, on request).

MOTOR CURVE:



DIMENSIONS:



ACTILINK-SC 6-2

INTEGRATED SERVO MOTOR



ESSENTIAL SPECIFICATIONS:

The ACTILINK-SC 6-2 line core specifications include the following:

| Continuous Operation* | |
|-------------------------|--------------------|
| Continuous Stall Torque | 1.3 Nm |
| Rated Torque | 1.3 Nm |
| Rated Velocity | 3000 rpm |
| Max Velocity | 4500 rpm |
| Rated Power | 400 W |
| Rated Voltage | 48 V |
| Rated DC Current | 10 A _{DC} |

| Peak Operation | |
|----------------|--------|
| Peak Torque | 5 Nm |
| Peak Power | 1040 W |

* at 40°C ambient

| Mechanical | no Brake | Brake |
|-----------------|------------------------|------------------------|
| Weight | 1.4 kg | 1.8 kg |
| Inertia | 0.58 kgcm ² | 0.59 kgcm ² |
| Max Radial Load | 245 N | |
| Max Axial Load | 74 N | |
| IP Rating | IP 65*** | |

CONNECTOR OPTIONS:



Hybrid Connectors



ISO Connectors

| | |
|------------------------|-----------------|
| Operating Temperature | 0 C° - 40 C° ** |
| Max operating altitude | 1000 m ** |
| Storage Temperature | -20 C° - 40 C° |
| Relative Humidity | 20%-80% |

** Possible to operate at higher altitude and temperature with derating

*** Shaft seal IP64

ORDERING INFORMATION (MPN)

ASC1-062A-0K-060-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, no brake)

ASC1-062A-BK-060-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, brake)

ASC1-062A-0K-060-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, no brake)

ASC1-062A-BK-060-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, brake)

ASC1-062A-0K-060-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, no brake)

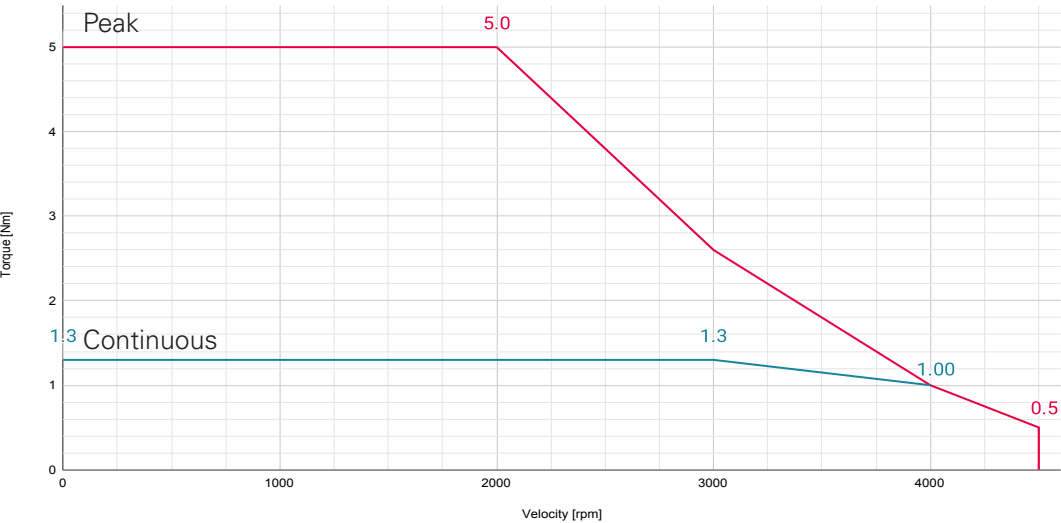
ASC1-062A-BK-060-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, brake)

ASC1-062A-xx-xxx-xxxx-xxxx-xxx-xx (custom configurations on request)

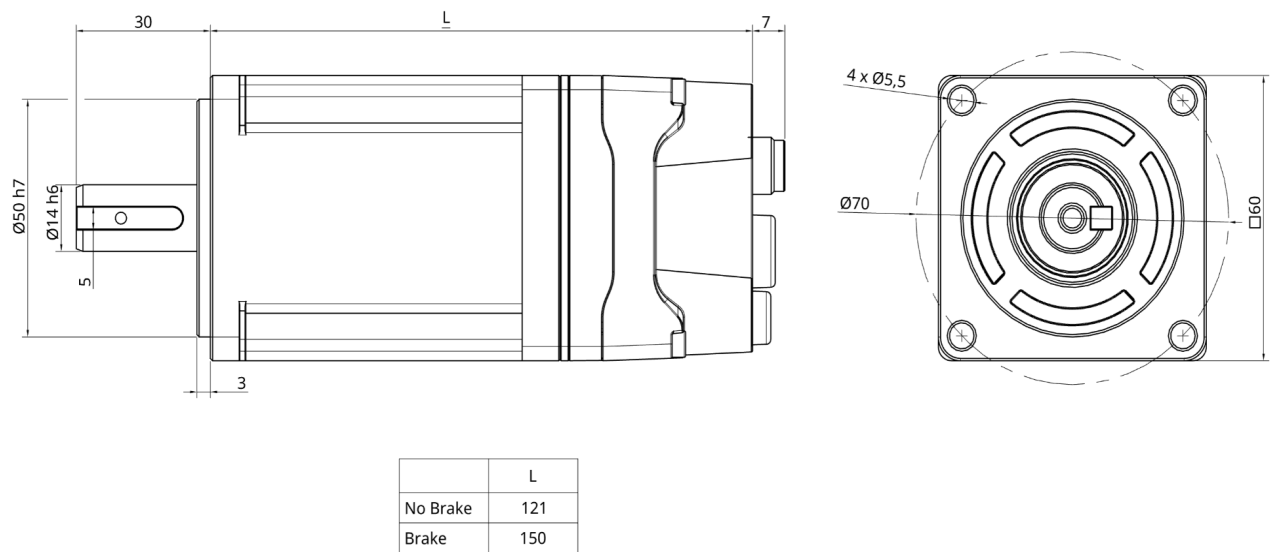
Standard configuration's MPNs are provided for the EtherCAT variants.

For other field buses, please replace „ECMH“ by „EPMH“ (PROFINET), „EIMH“ (Ethernet/IP) or „CBMH“ (CAN bus, on request).

MOTOR CURVE:



DIMENSIONS:



ACTILINK-SC 6-3

INTEGRATED SERVO MOTOR



ESSENTIAL SPECIFICATIONS:

The ACTILINK-SC 6-3 line core specifications include the following:

| Continuous Operation* | |
|-------------------------|--------------------|
| Continuous Stall Torque | 2 Nm |
| Rated Torque | 1.9 Nm |
| Rated Velocity | 3000 rpm |
| Max Velocity | 4500 rpm |
| Rated Power | 600 W |
| Rated Voltage | 48 V |
| Rated DC Current | 15 A _{DC} |

| Peak Operation | |
|----------------|--------|
| Peak Torque | 8 Nm |
| Peak Power | 1670 W |

* at 40°C ambient

| Mechanical | no Brake | Brake |
|-----------------|------------------------|------------------------|
| Weight | 1.8 kg | 2.2 kg |
| Inertia | 0.83 kgcm ² | 0.84 kgcm ² |
| Max Radial Load | 245 N | |
| Max Axial Load | 74 N | |
| IP Rating | IP 65*** | |

CONNECTOR OPTIONS:



Hybrid Connectors



ISO Connectors

| | |
|------------------------|-----------------|
| Operating Temperature | 0 C° - 40 C° ** |
| Max operating altitude | 1000 m ** |
| Storage Temperature | -20 C° - 40 C° |
| Relative Humidity | 20%-80% |

** Possible to operate at higher altitude and temperature with derating

*** Shaft seal IP64

ORDERING INFORMATION (MPN)

ASC1-063A-0K-060-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, no brake)

ASC1-063A-BK-060-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, brake)

ASC1-063A-0K-060-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, no brake)

ASC1-063A-BK-060-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, brake)

ASC1-063A-0K-060-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, no brake)

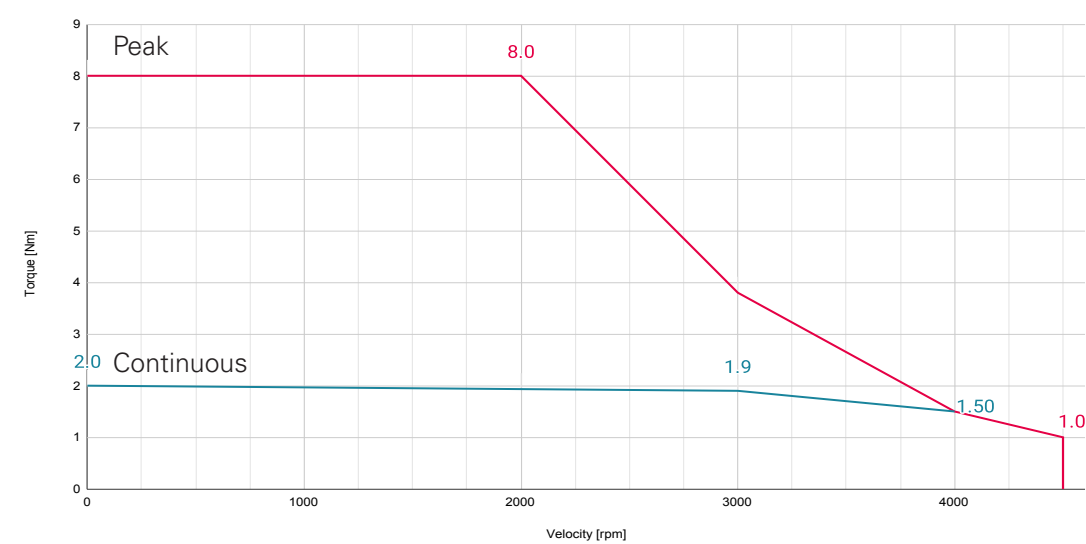
ASC1-063A-BK-060-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, brake)

ASC1-063A-xx-xxx-xxxx-xxxx-xxx-xx (custom configurations on request)

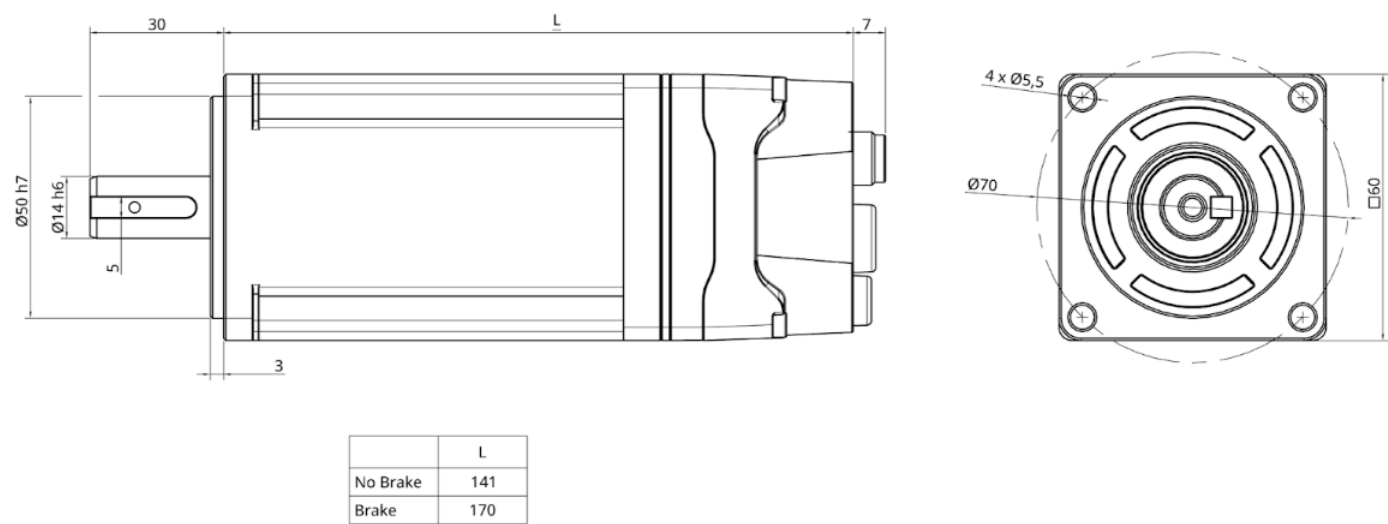
Standard configuration's MPNs are provided for the EtherCAT variants.

For other field buses, please replace „ECMH“ by „EPMH“ (PROFINET), „EIMH“ (Ethernet/IP) or „CBMH“ (CAN bus, on request).

MOTOR CURVE:



DIMENSIONS:



ACTILINK-SC 8-1

INTEGRATED SERVO MOTOR



ESSENTIAL SPECIFICATIONS:

The ACTILINK-SC 8-1 line core specifications include the following:

| Continuous Operation* | |
|-------------------------|--------------------|
| Continuous Stall Torque | 2.4 Nm |
| Rated Torque | 2.4 Nm |
| Rated Velocity | 3000 rpm |
| Max Velocity | 4500 rpm |
| Rated Power | 750 W |
| Rated Voltage | 48 V |
| Rated DC Current | 18 A _{DC} |
| Peak Operation | |
| Peak Torque | 9.5 Nm |
| Peak Power | 2480 W |

* at 40°C ambient

| Mechanical | no Brake | Brake |
|-----------------|-----------------------|------------------------|
| Weight | 2.4 kg | 3 kg |
| Inertia | 1.5 kgcm ² | 1.65 kgcm ² |
| Max Radial Load | 392 N | |
| Max Axial Load | 147 N | |
| IP Rating | IP 65*** | |

CONNECTOR OPTIONS:



Hybrid Connectors



ISO Connectors

| | |
|------------------------|-----------------|
| Operating Temperature | 0 C° - 40 C° ** |
| Max operating altitude | 1000 m ** |
| Storage Temperature | -20 C° - 40 C° |
| Relative Humidity | 20%-80% |

** Possible to operate at higher altitude and temperature with derating

*** Shaft seal IP64

ORDERING INFORMATION (MPN)

ASC1-081A-0K-120-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, no brake)

ASC1-081A-BK-120-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, brake)

ASC1-081A-0K-120-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, no brake)

ASC1-081A-BK-120-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, brake)

ASC1-081A-0K-120-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, no brake)

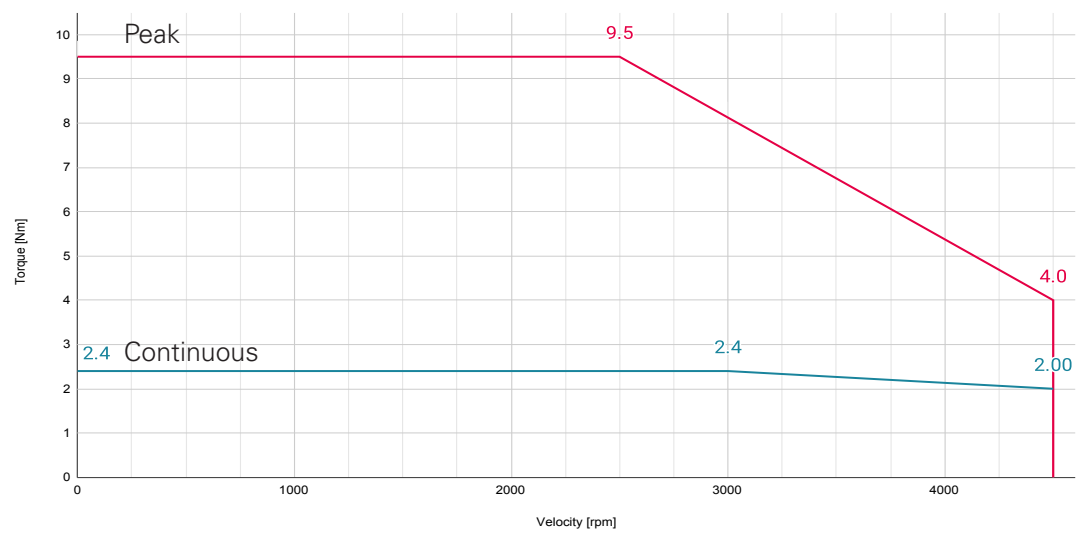
ASC1-081A-BK-120-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, brake)

ASC1-081A-xx-xxx-xxxx-xxxx-xxx-xx (custom configurations on request)

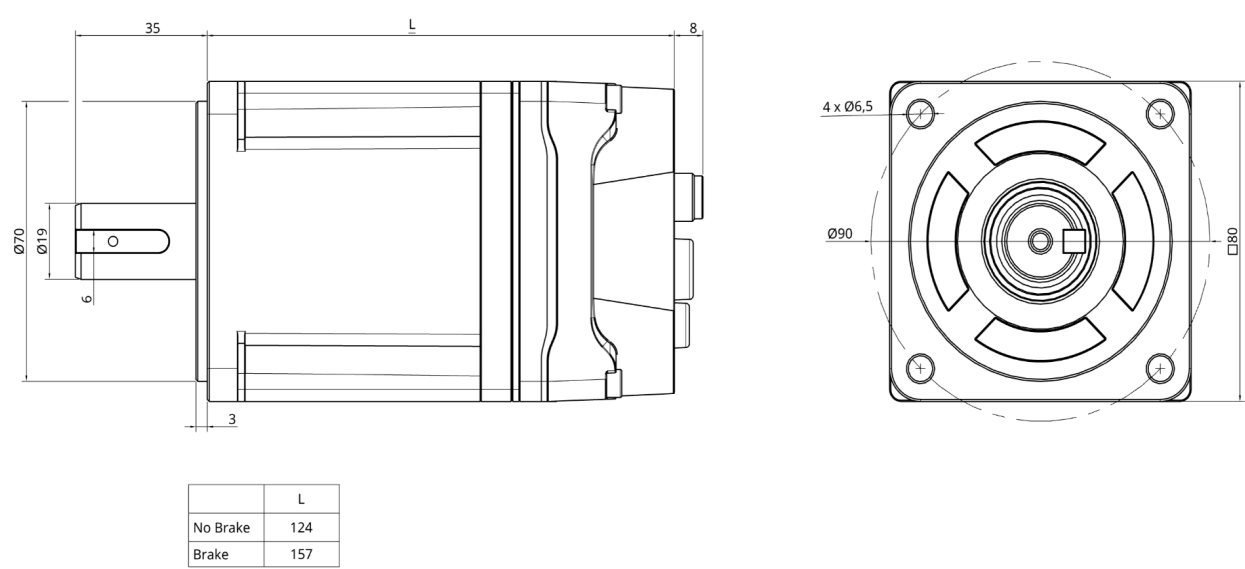
Standard configuration's MPNs are provided for the EtherCAT variants.

For other field buses, please replace „ECMH“ by „EPMH“ (PROFINET), „EIMH“ (Ethernet/IP) or „CBMH“ (CAN bus, on request).

MOTOR CURVE:



DIMENSIONS:



ACTILINK-SC 8-2

INTEGRATED SERVO MOTOR



ESSENTIAL SPECIFICATIONS:

The ACTILINK-SC 8-2 line core specifications include the following:

| Continuous Operation* | |
|-------------------------|--------------------|
| Continuous Stall Torque | 3.2 Nm |
| Rated Torque | 3.2 Nm |
| Rated Velocity | 3000 rpm |
| Max Velocity | 4500 rpm |
| Rated Power | 1000 W |
| Rated Voltage | 48 V |
| Rated DC Current | 24 A _{DC} |
| Peak Operation | |
| Peak Torque | 13 Nm |
| Peak Power | 3400 W |

* at 40°C ambient

| Mechanical | no Brake | Brake |
|-----------------|-----------------------|------------------------|
| Weight | 2.9 kg | 3.3 kg |
| Inertia | 1.8 kgcm ² | 1.95 kgcm ² |
| Max Radial Load | 392 N | |
| Max Axial Load | 147 N | |
| IP Rating | IP 65*** | |

CONNECTOR OPTIONS:



Hybrid Connectors



ISO Connectors

| | |
|------------------------|-----------------|
| Operating Temperature | 0 C° - 40 C° ** |
| Max operating altitude | 1000 m ** |
| Storage Temperature | -20 C° - 40 C° |
| Relative Humidity | 20%-80% |

** Possible to operate at higher altitude and temperature with derating

*** Shaft seal IP64

ORDERING INFORMATION (MPN)

ASC1-082A-0K-120-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, no brake)

ASC1-082A-BK-120-ECMH-M2G3-ST0-01 (standard configuration: ISO connectors, brake)

ASC1-082A-0K-120-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, no brake)

ASC1-082A-BK-120-ECMH-H2G3-ST0-01 (standard configuration: I-Tec connector, brake)

ASC1-082A-0K-120-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, no brake)

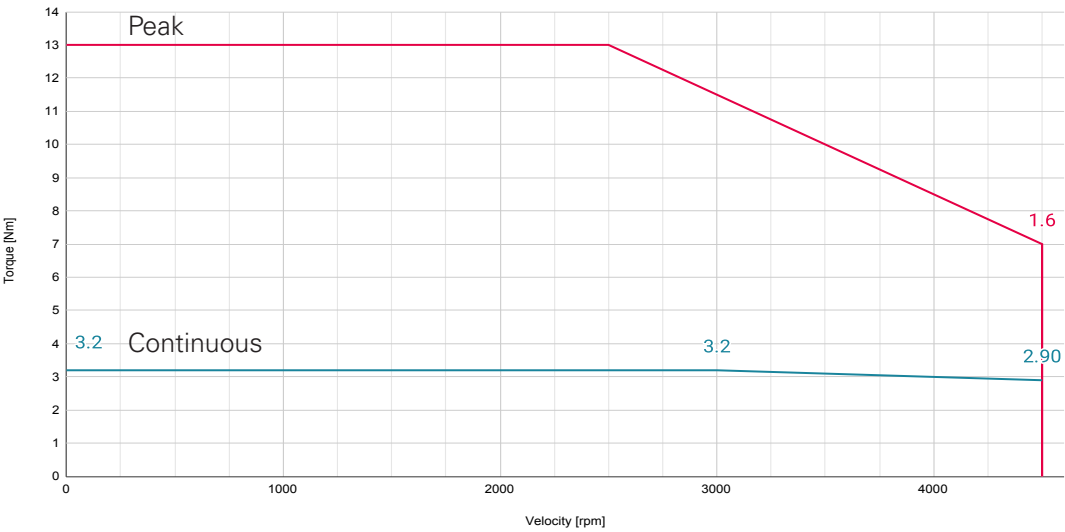
ASC1-082A-BK-120-ECMH-H4G3-ST0-01 (standard configuration: Y-Tec connector, brake)

ASC1-082A-xx-xxx-xxxx-xxxx-xxx-xx (custom configurations on request)

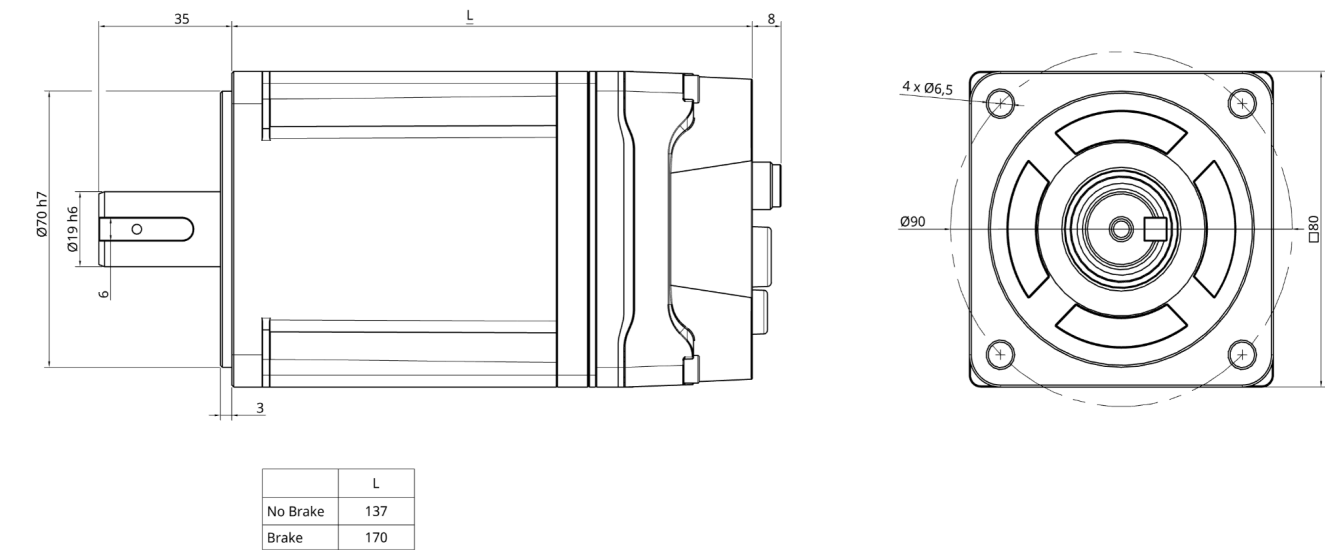
Standard configuration's MPNs are provided for the EtherCAT variants.

For other field buses, please replace „ECMH“ by „EPMH“ (PROFINET), „EIMH“ (Ethernet/IP) or „CBMH“ (CAN bus, on request).

MOTOR CURVE:



DIMENSIONS:





ELECTRONICS FEATURES FOR ALL ACTILINK-S DEVICES:

| SPECIFICATIONS | VALUES / OPTIONS |
|-----------------------------------|--|
| DC bus voltage | 24-60 V, Nominal: 48V |
| Operating temperature | 0-40°C |
| Thermal management and protection | Temperature sensors for electronics and motor. I2t model for electronics and motor. |
| Safety functions | STO, SBC |
| Safety integrity level | SIL3, PLe-Cat.3 |
| Bus interface | Options: EtherCAT, EtherNet/IP, PROFINET |
| GPIO | Optional: 2x DIO, 1x DI, 1x AI, 1x ext. encoder (BiSS / SSI / ABI) |
| Commissioning | OBLAC Drives, native apps available for Windows, Linux or OBLAC Box |
| Control system architectures | With PLC / master controller via field bus, standalone via user scripting or combined |
| Integrated encoders | Options: 12 bit, 14 bit, 18 bit Optional: absolute multi-turn (battery free) |
| Approvals and certificates | CE, IEC-61800, among others. See: Standards and Compliance (below) for details. |

STANDARDS AND COMPLIANCE

Synapticon adheres to the following standards and compliance requirements:

| CATEGORY | STANDARDS |
|----------------------------------|---|
| General Product Safety Directive | 2001/95/EC |
| EMC | IEC 61800-3 Emissions: C2 Immunity: second environment |
| Electrical Safety | IEC 61800-5-1 |
| Functional Safety | IEC 61800-5-2, IEC 61508 parts 1-7, ISO 13849-1, ISO 13849-2 |
| UL | UL 61800-5-1, 2nd edition |
| Shock | IEC 60068-2-6 |
| Vibration | IEC 60068-2-27 |



CE

SOMANET Integro complies with the requirements of the respective European directives (CE), ensuring that it meets the highest standards set by the European Union. The CE mark is a symbol of quality and safety, providing assurance that the product complies with the essential requirements of relevant European health, safety, and environmental protection legislation. A declaration of conformity (DoC) can be issued on request.

REACH Compliance

SOMANET Integro is fully compliant with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulation, ensuring the safety and environmental responsibility of the product.. REACH is a European Union regulation that addresses the production and use of chemical substances. SOMANET Integro complies with REACH by adhering to the strict restrictions set on the use of hazardous substances, as outlined in the regulation.

RoHS Compliance

RoHS (Restriction of Hazardous Substances) is an EU directive that restricts the use of certain hazardous substances in electrical and electronic equipment. SOMANET Integro is RoHS-compliant, ensuring that it does not contain any restricted substances- such as lead, mercury, cadmium, and others - above the specified limits.