

# Servomotori sincroni MCS

Curve di coppia



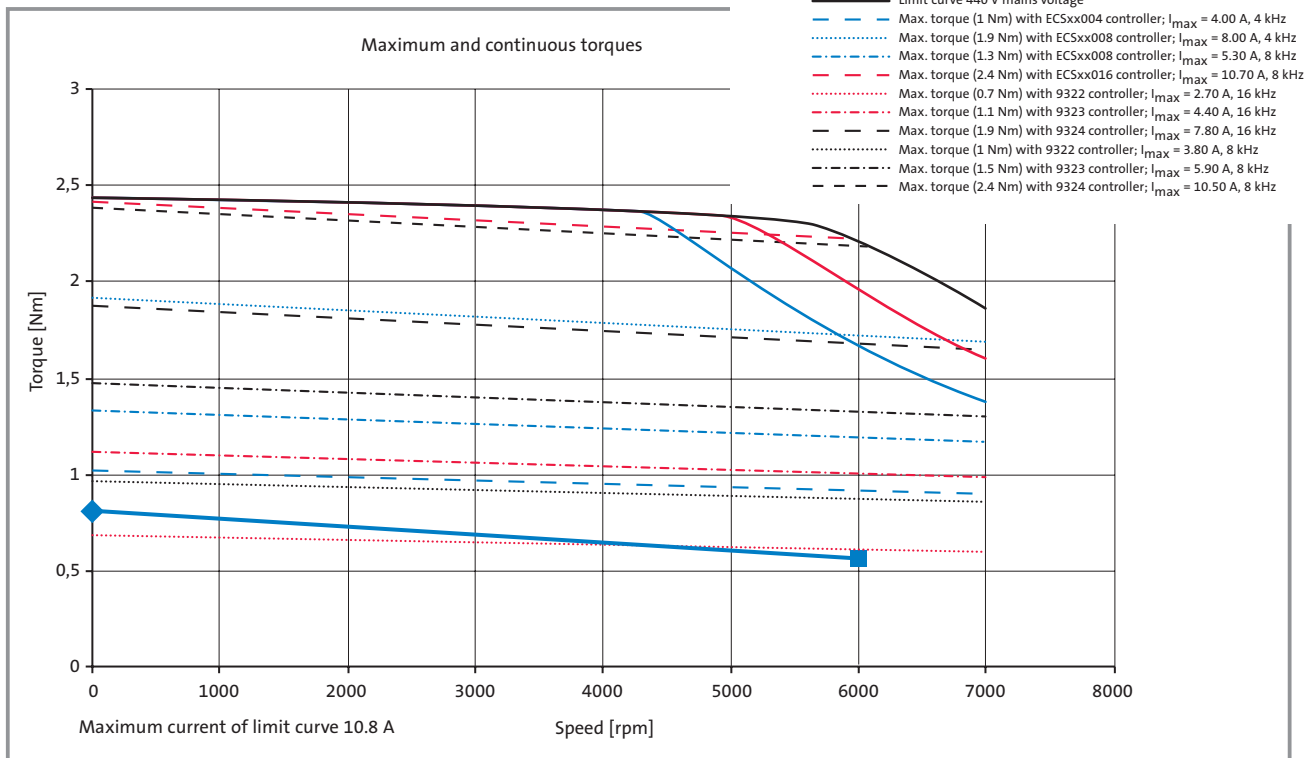


# Technical data

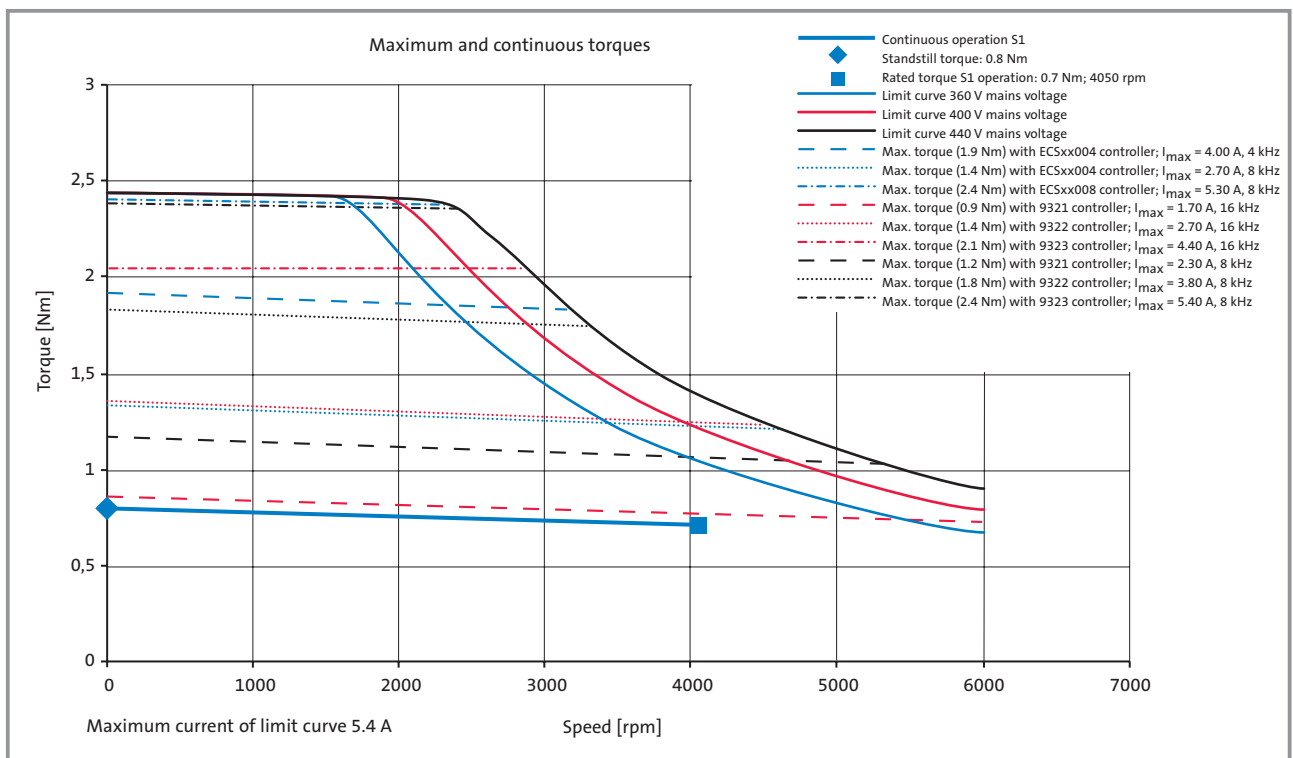
## MCS 06 synchronous servo motors

### Torque characteristics

#### MCS 06C60



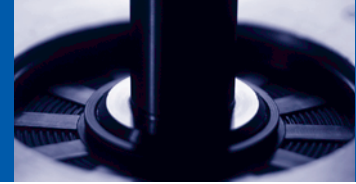
#### MCS 06C41



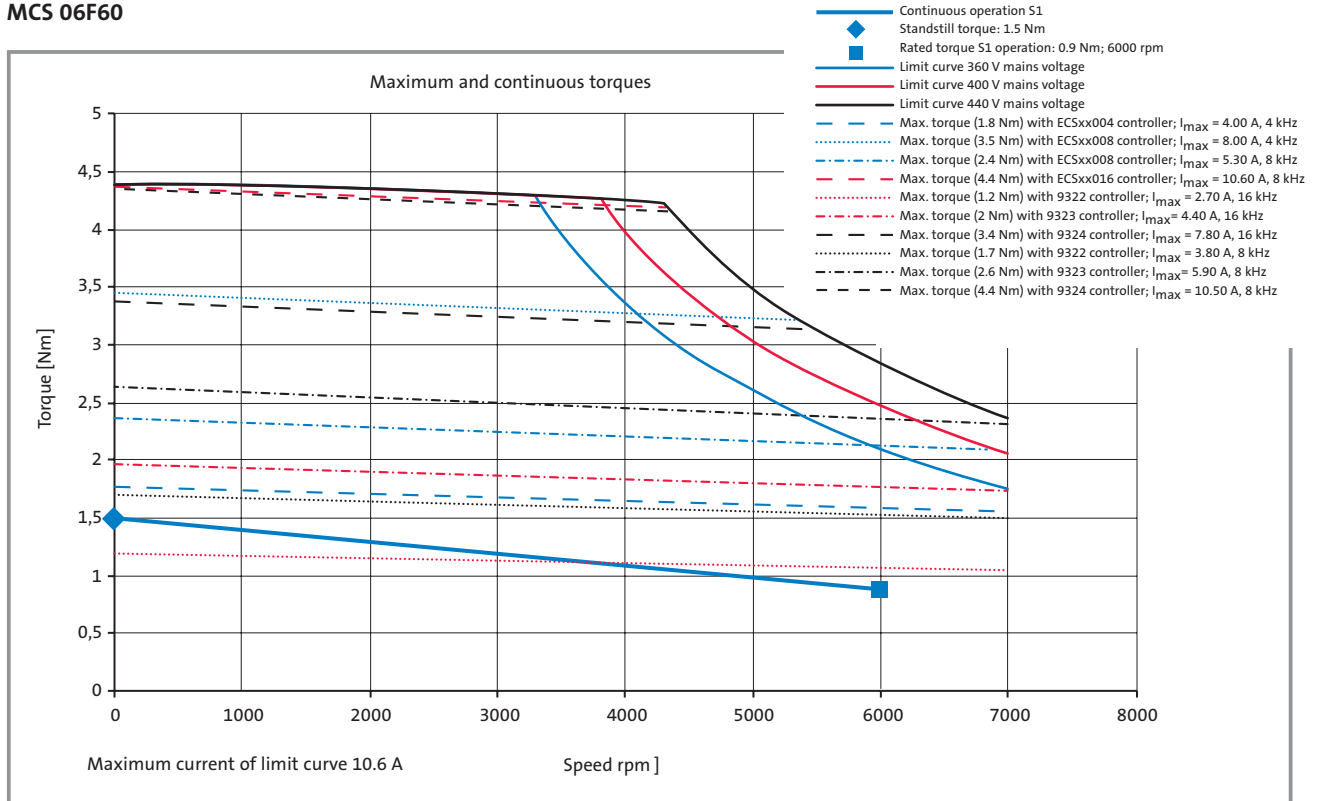
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.

# Technical data

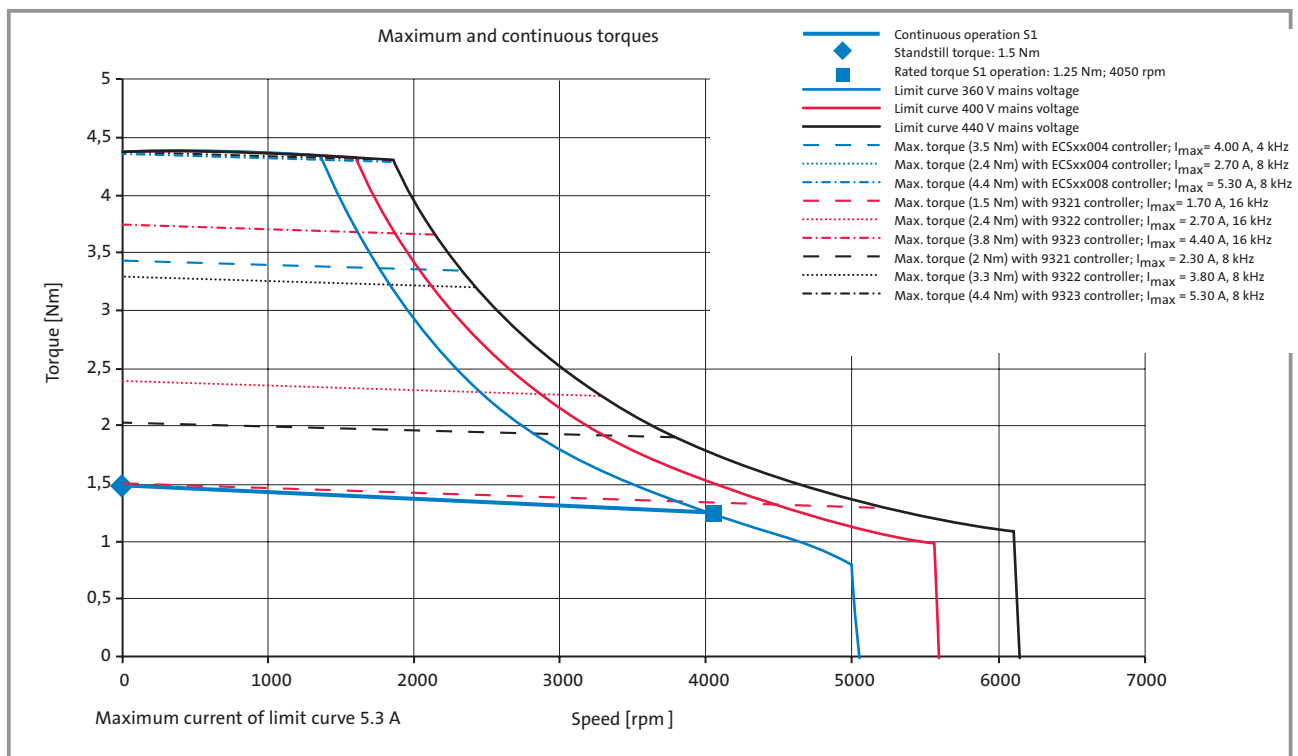
## MC 06 synchronous servo motors



### MCS 06F60



### MCS 06F41



At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.

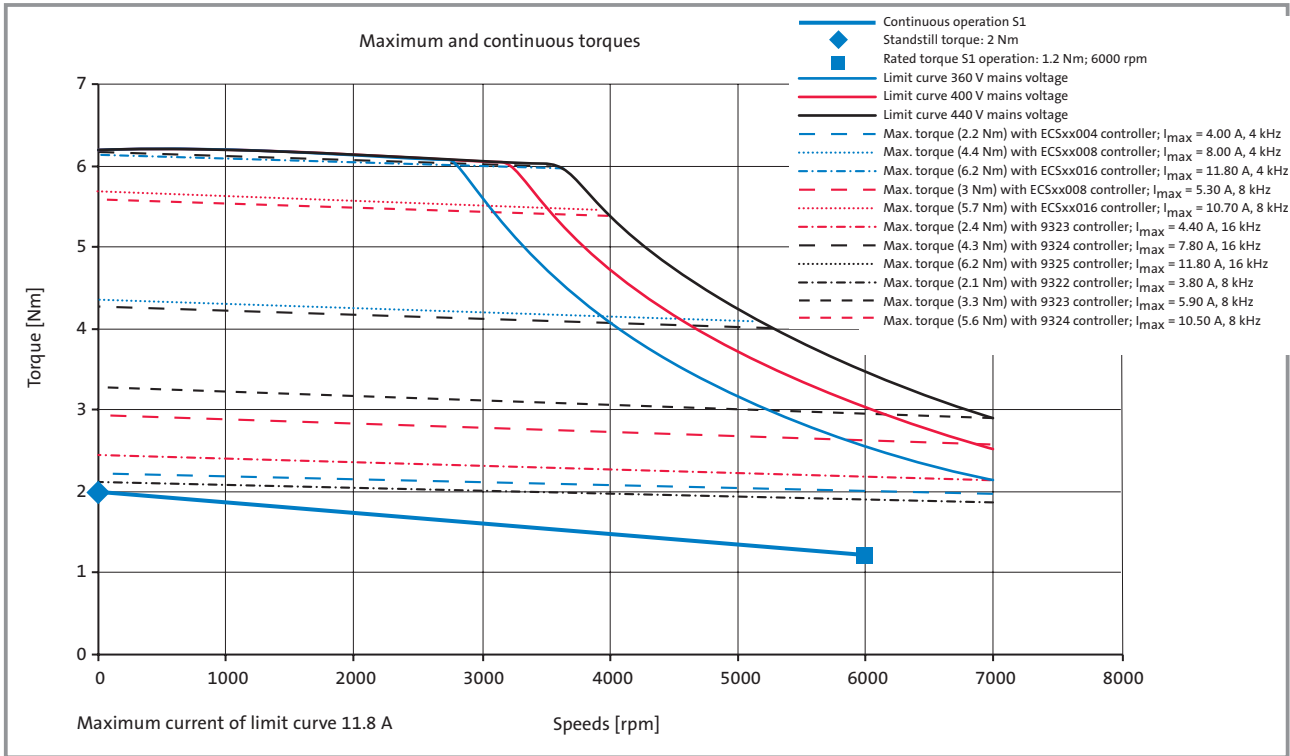


# Technical data

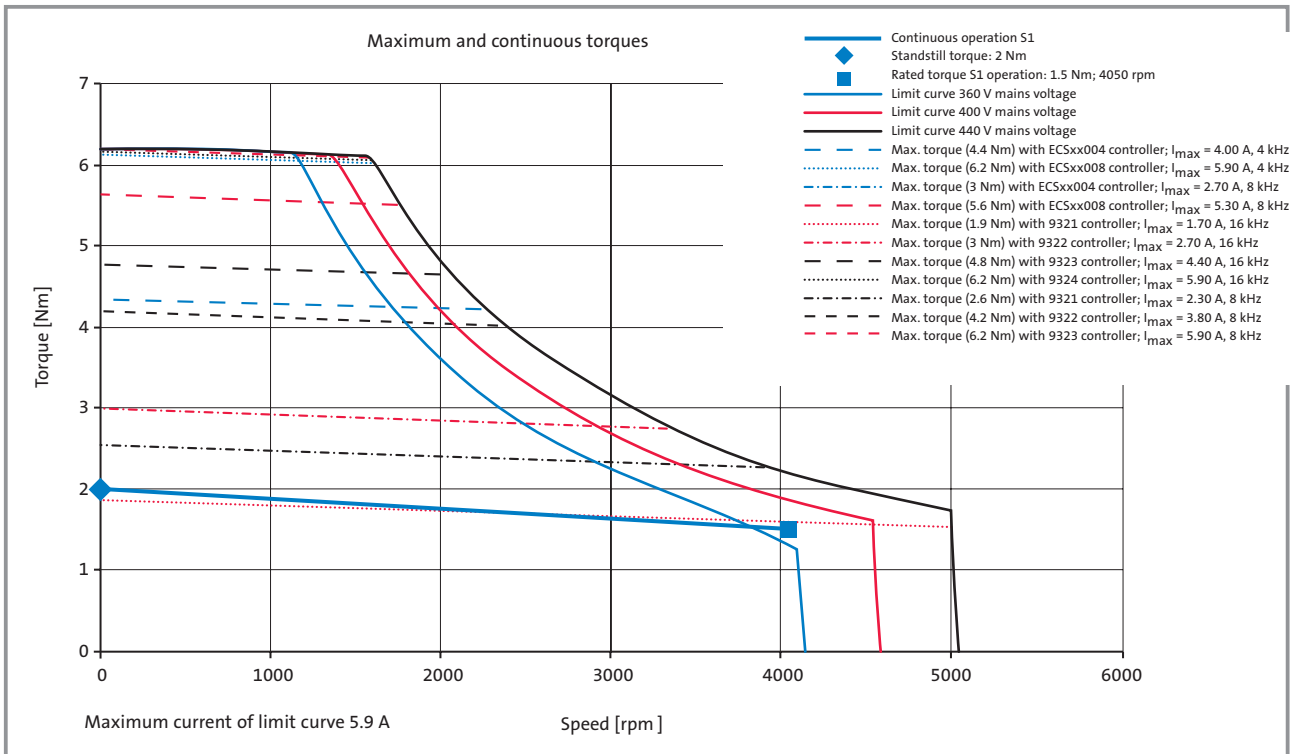
## MCS 06 synchronous servo motors

### Torque characteristics

#### MCS 06I60



#### MCS 06I41



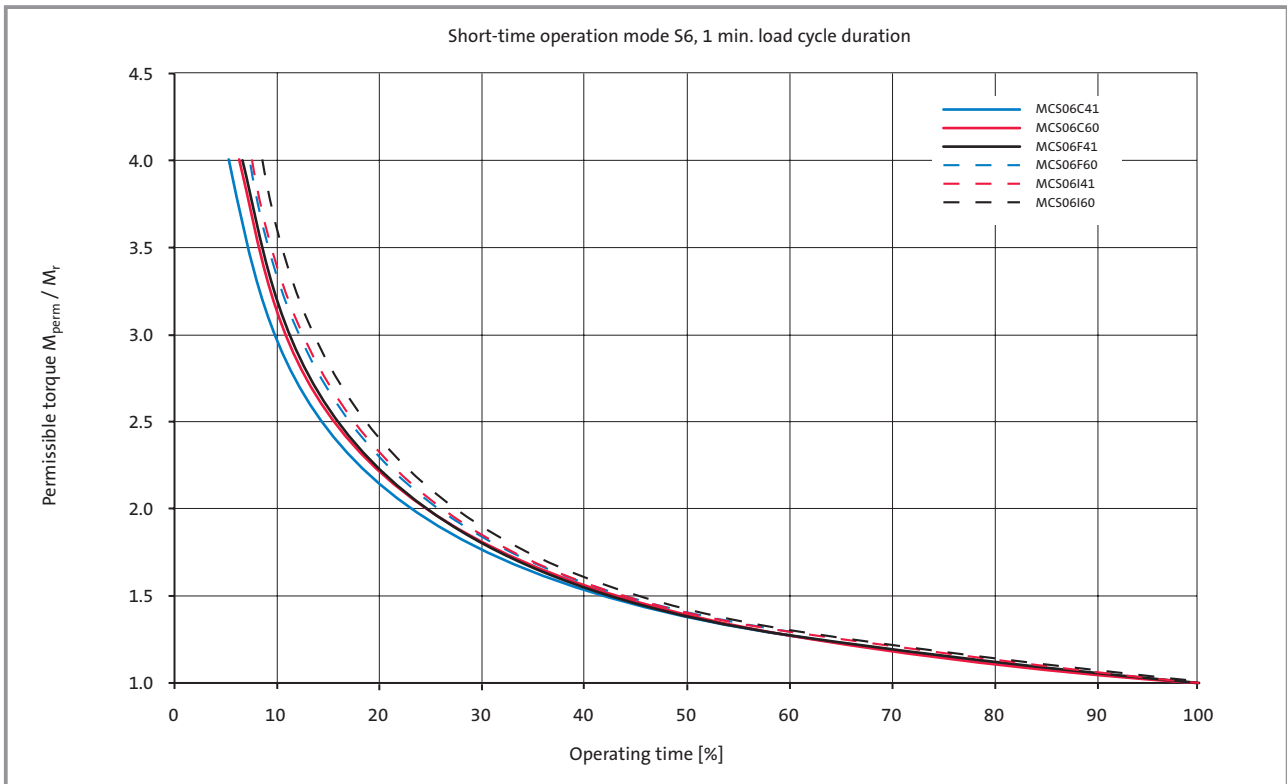
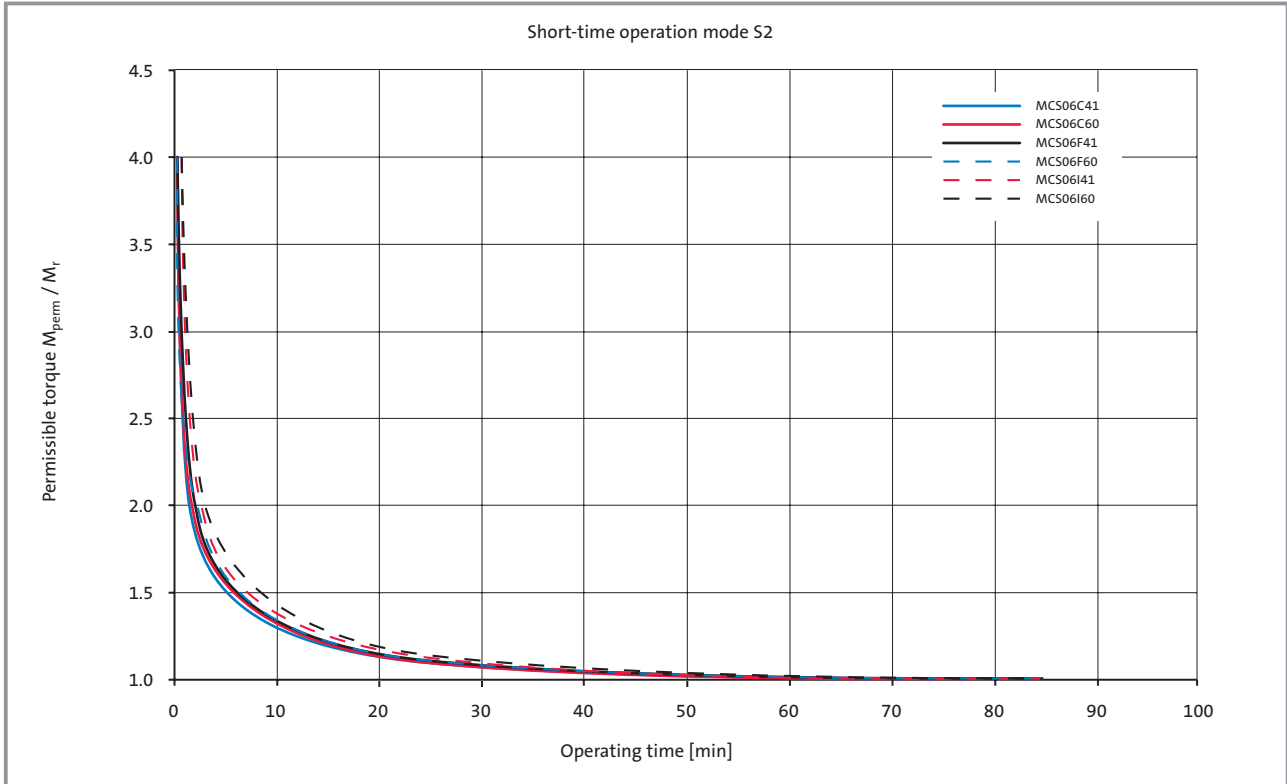
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



### Short-time operation characteristic

Lenze MCS servo motors are designed to be used in dynamic applications with high torque peaks. In order to make full use of this highly dynamic response as simply as possible,

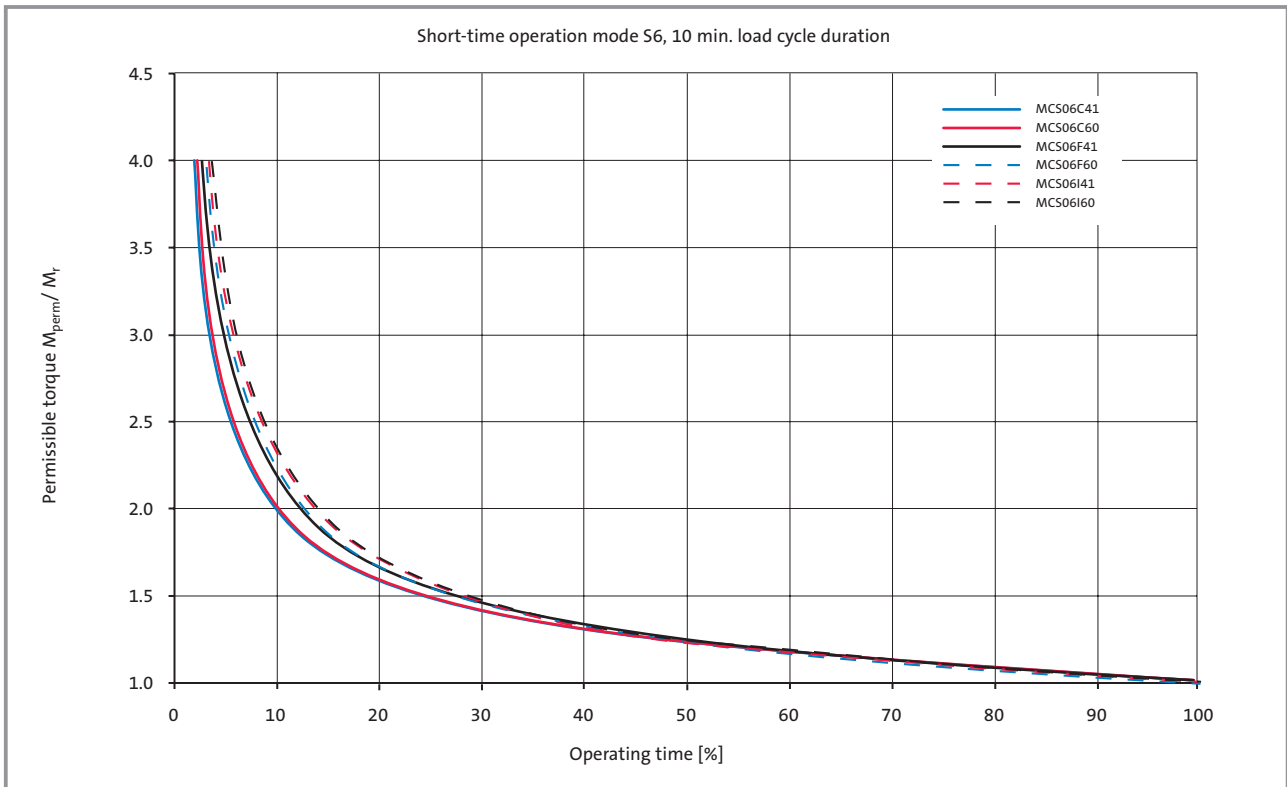
the following diagrams for operating modes S2 and S6 illustrate the permissible operating times against the torque peaks required.





# Technical data

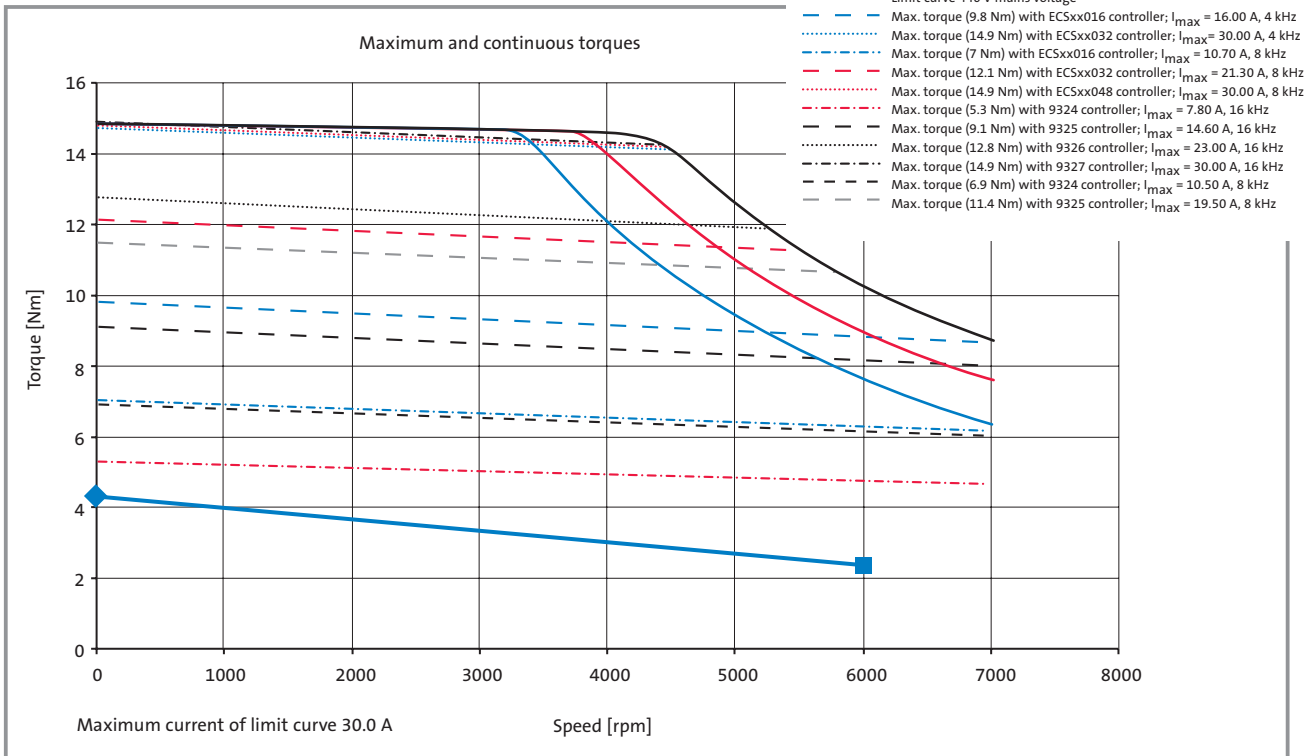
## MCS 06 synchronous servo motors



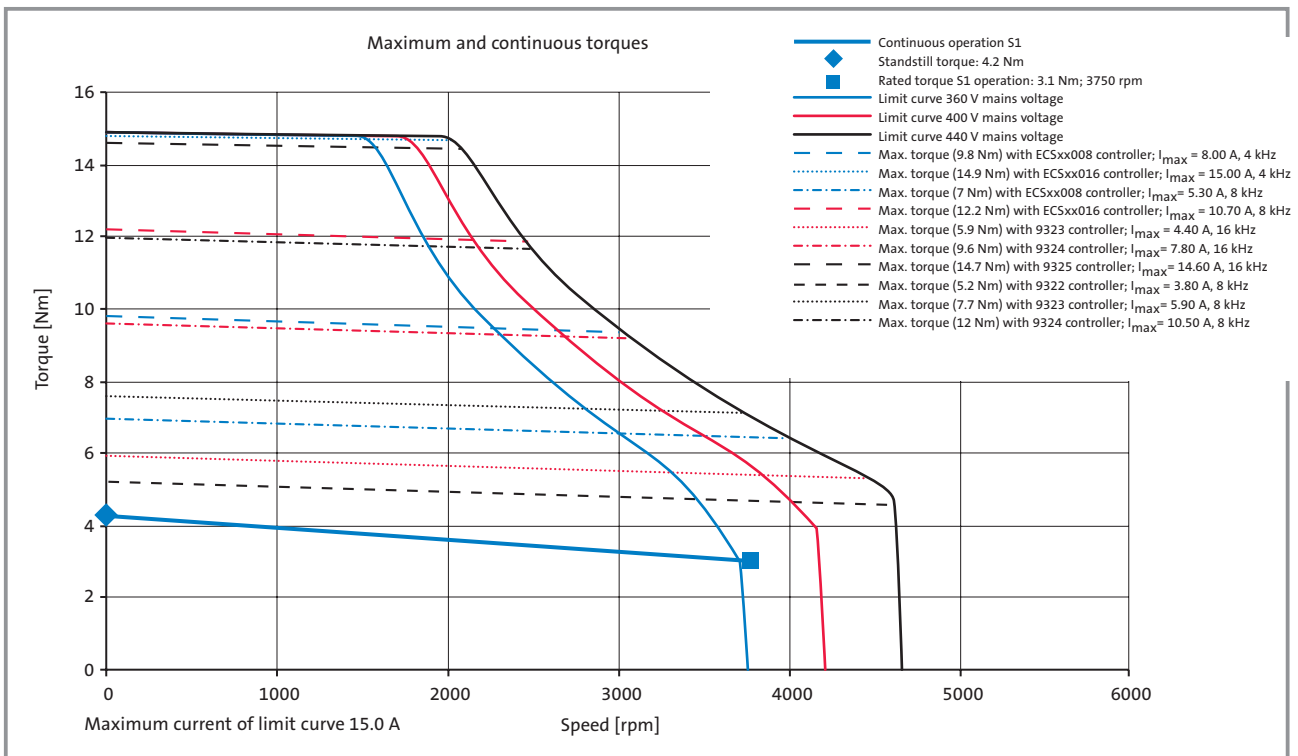


### Torque characteristics

#### MCS 09F60



#### MCS 09F38



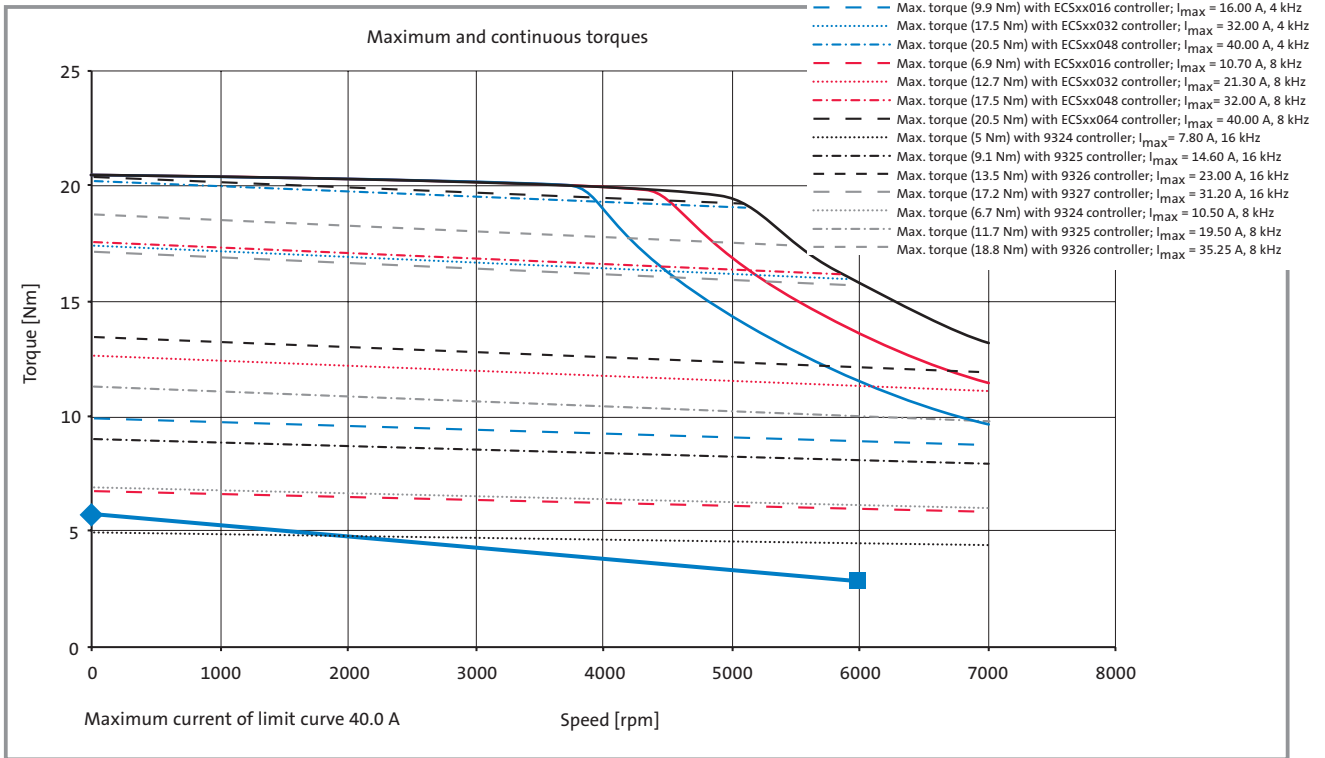
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



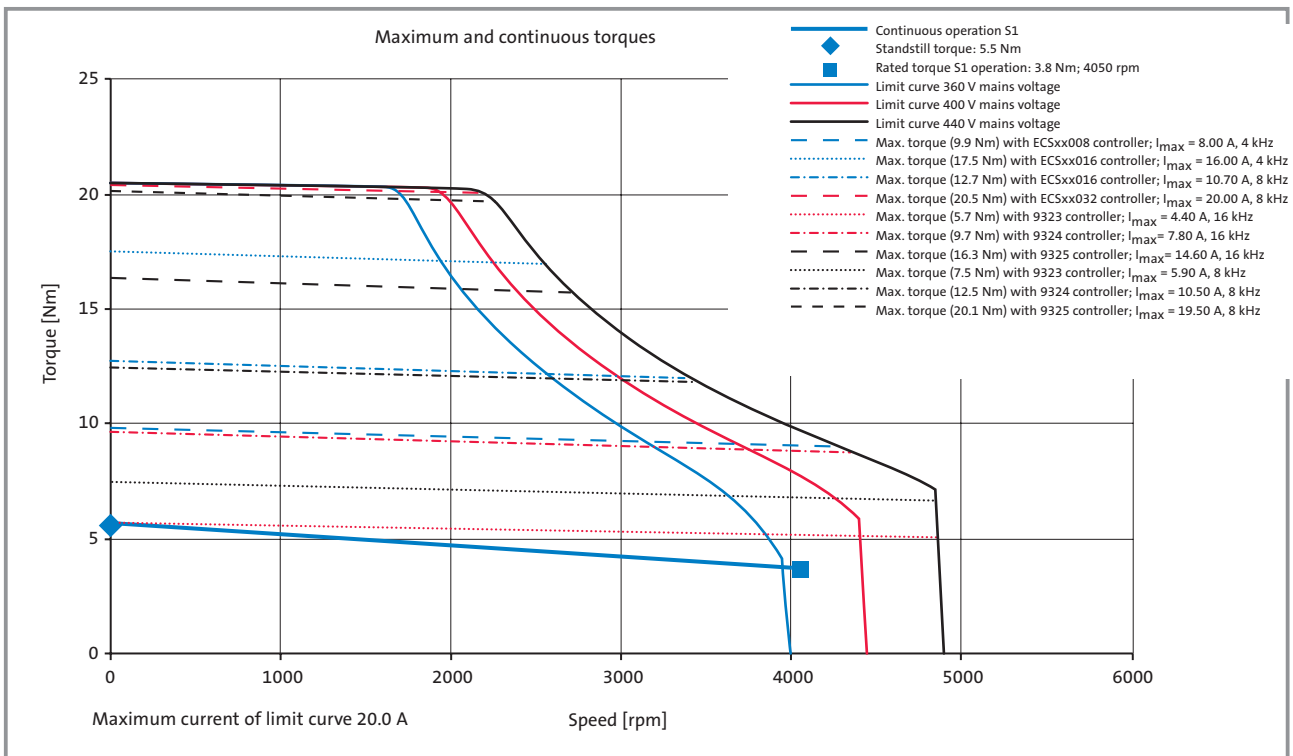
# Technical data

## MCS 09 synchronous servo motors

### MCS 09H60



### MCS 09H41



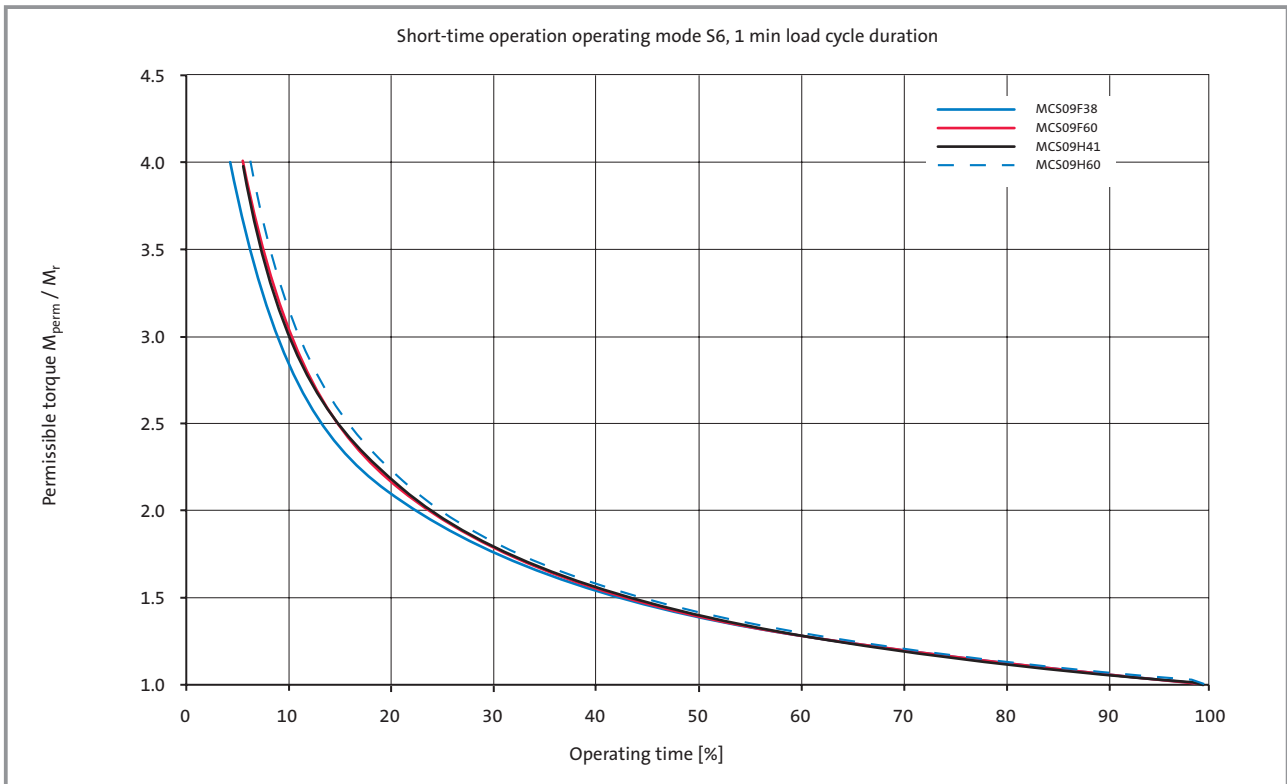
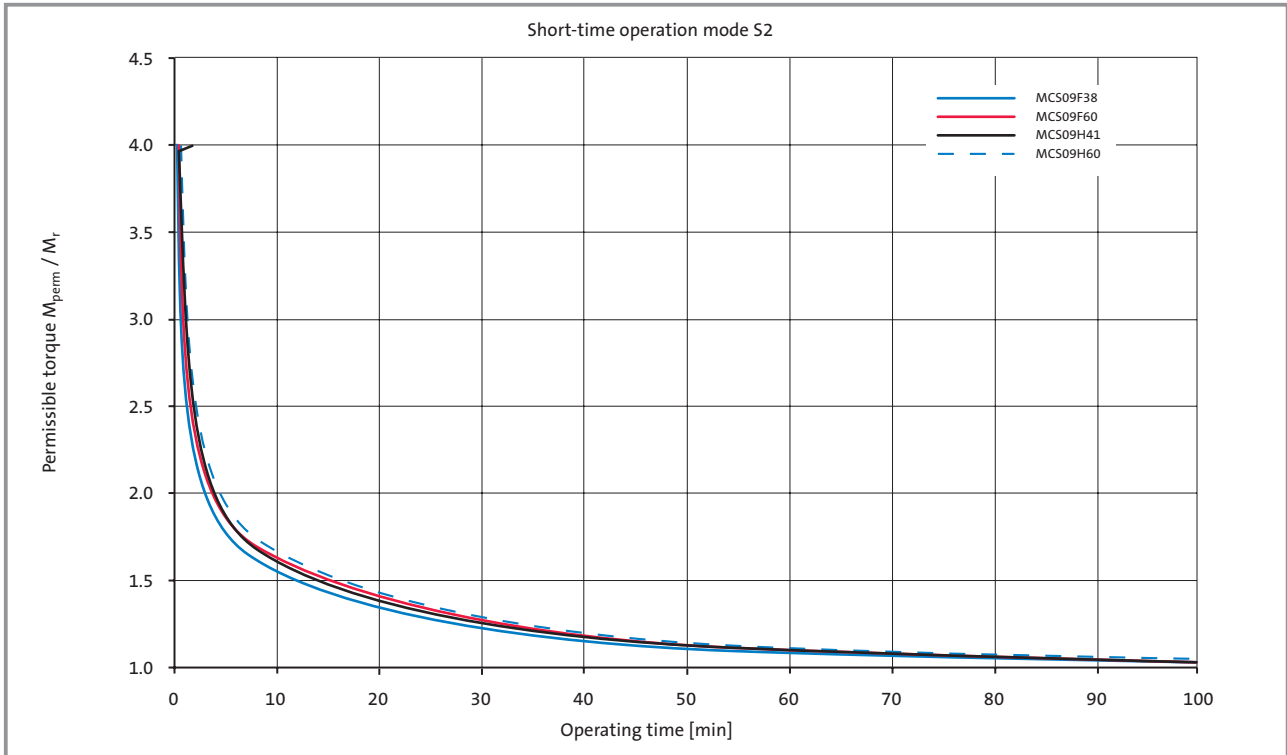
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



### Short-time operation characteristic

Lenze MCS synchronous servo motors are designed to be used in dynamic applications with high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating

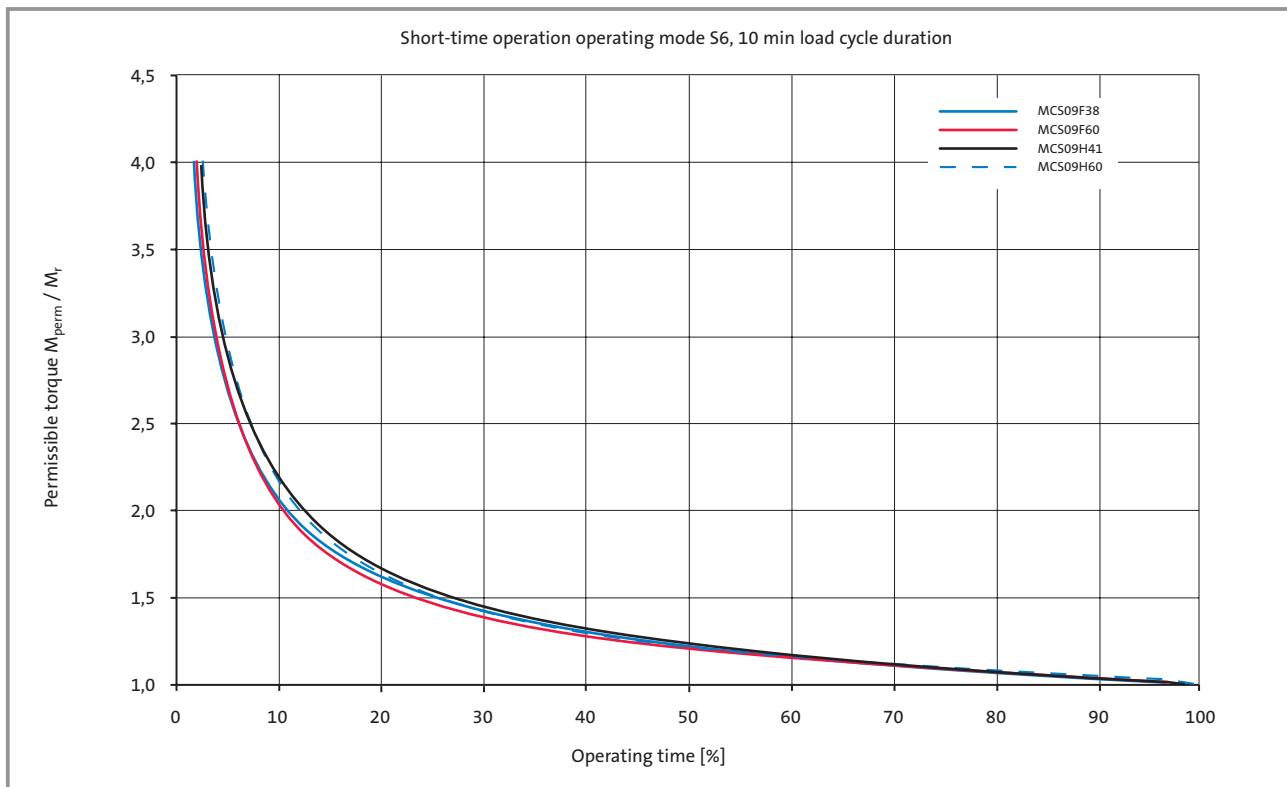
modes S2 and S6 illustrate the permissible operating times against the torque peaks required.





## Technical data

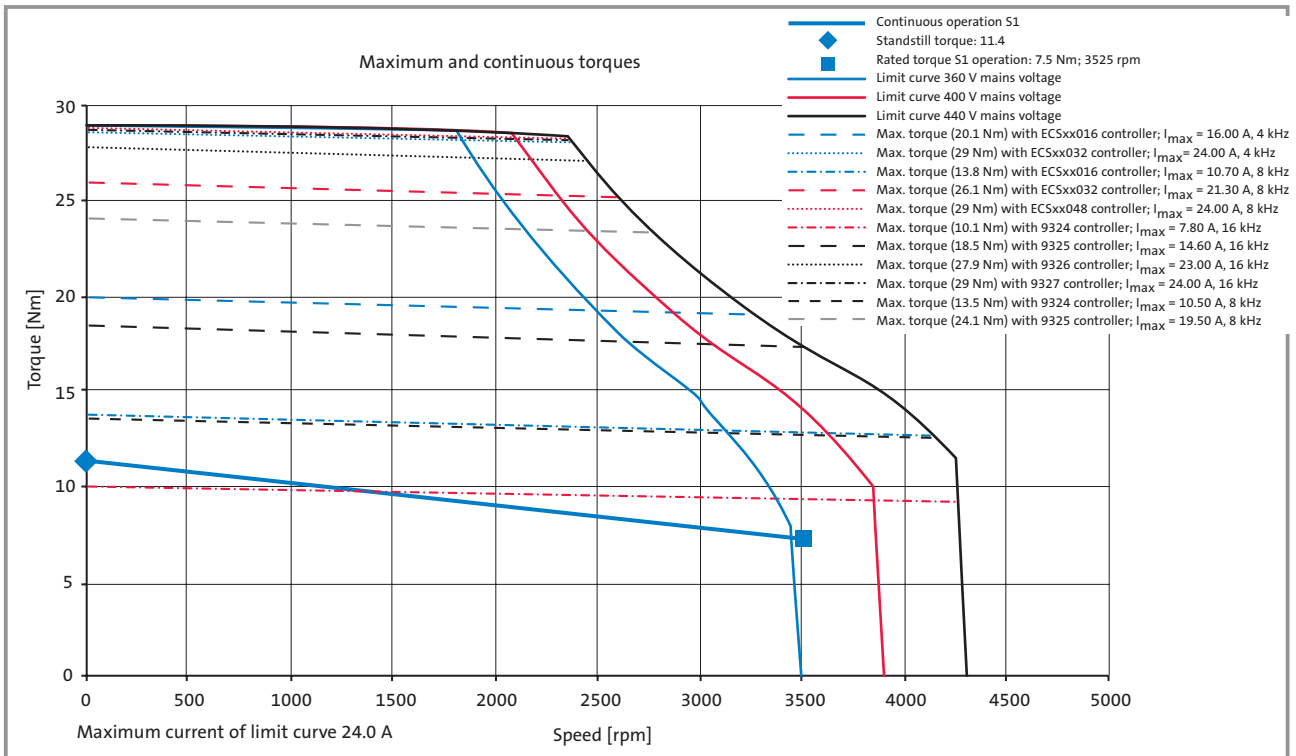
### MCS 09 synchronous servo motors



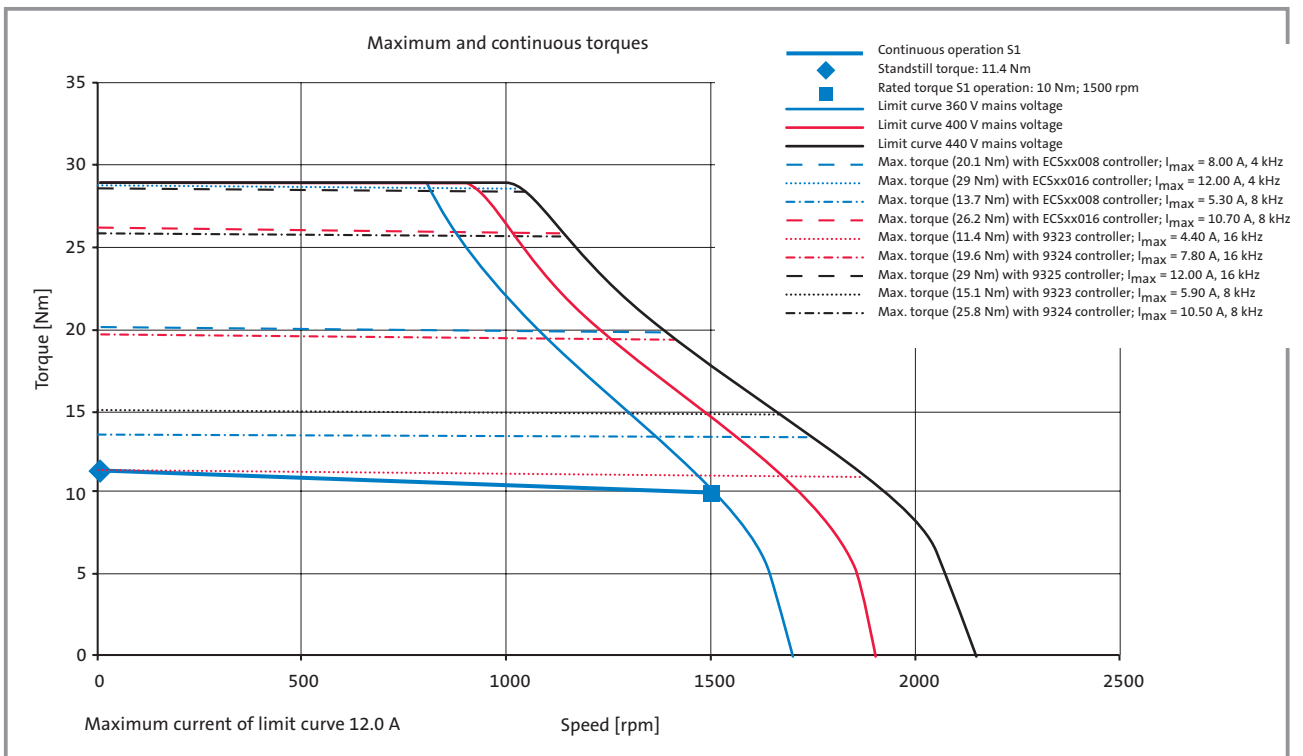


### Torque characteristics

#### MCS 12H35



#### MCS 12H15



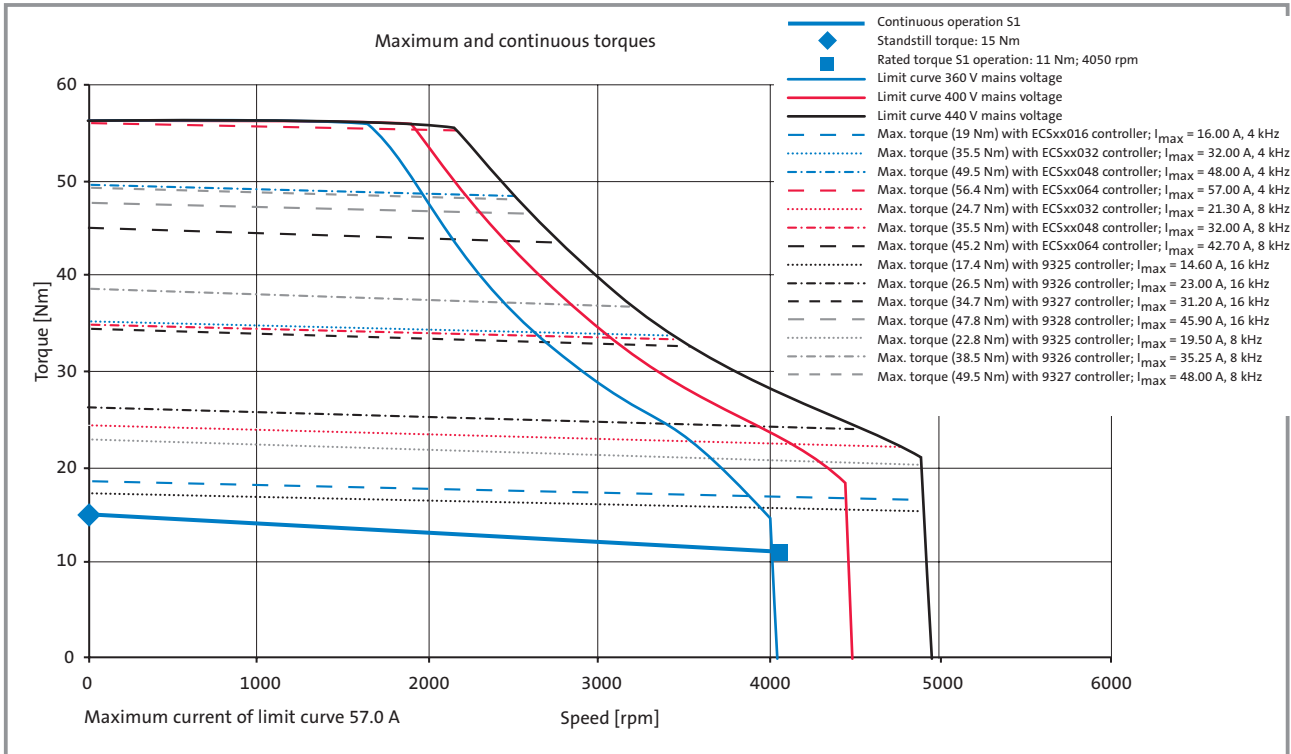
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



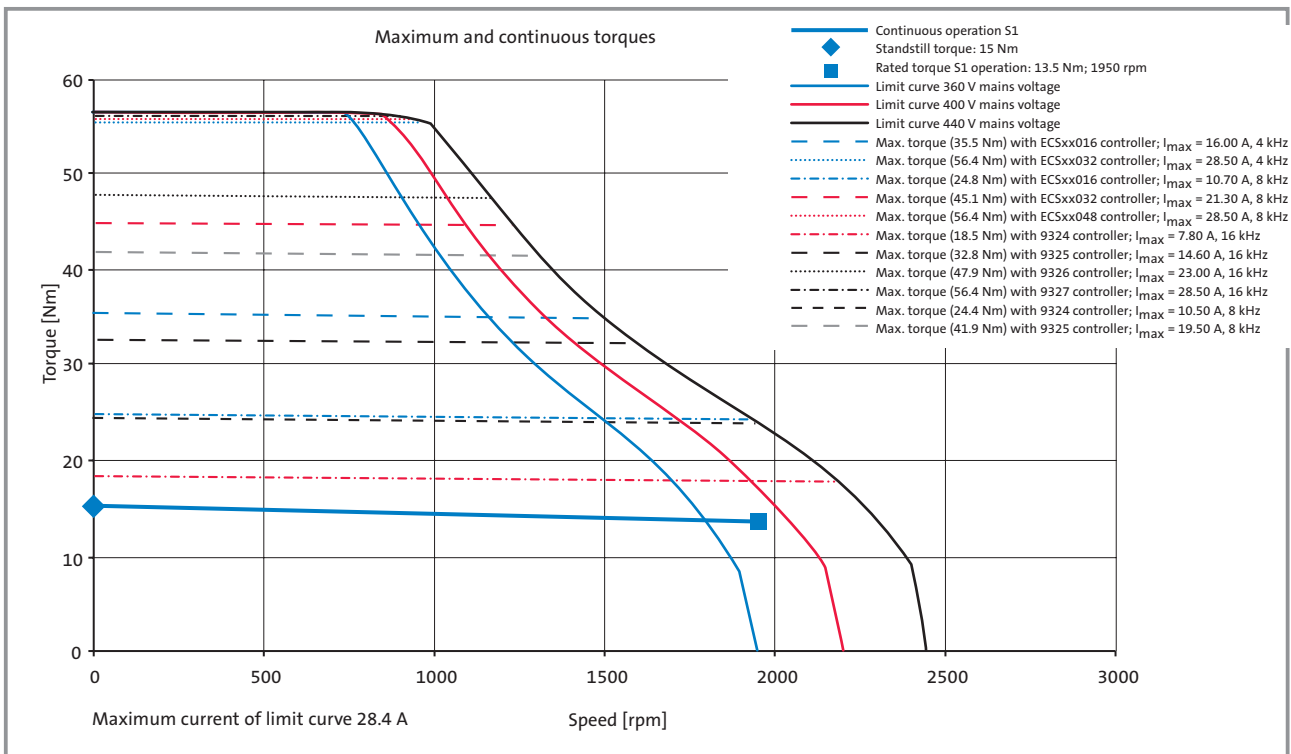
# Technical data

## MCS 12 synchronous servo motors

### MCS 12L41



### MCS 12L20



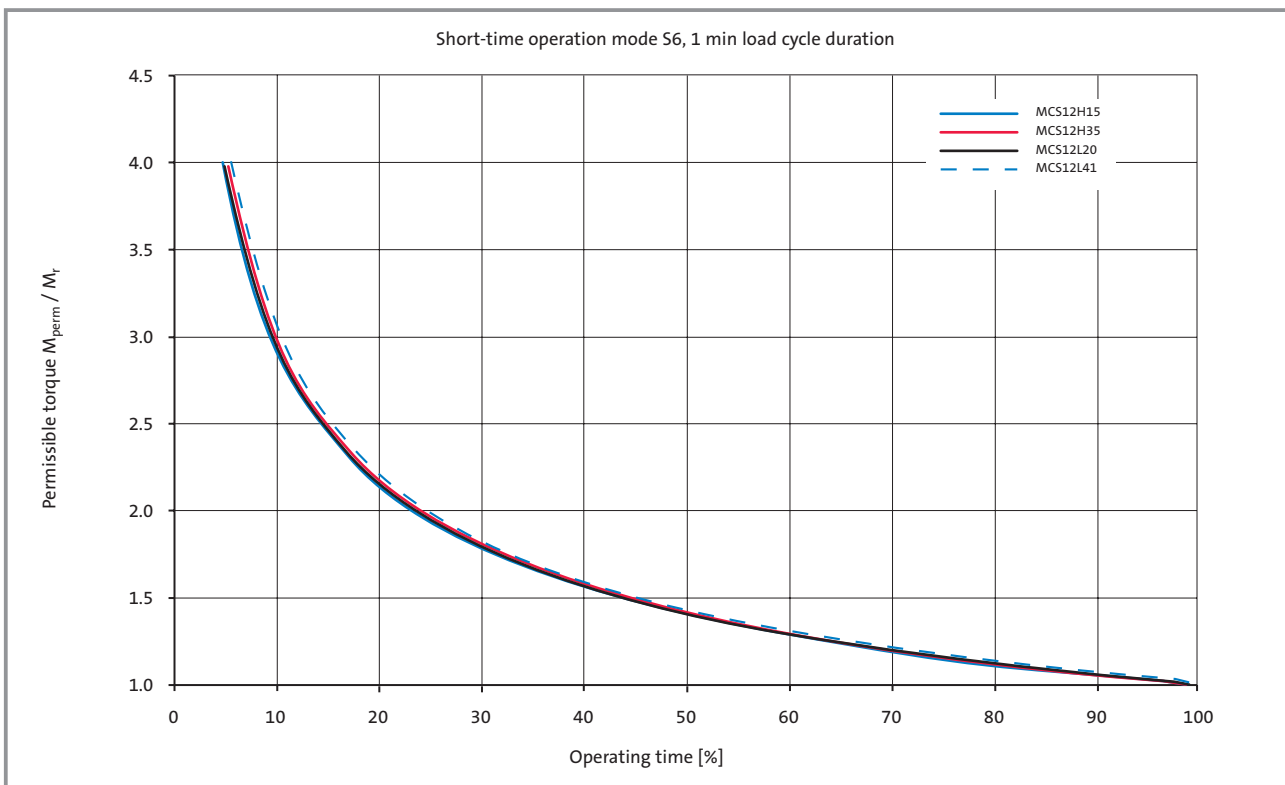
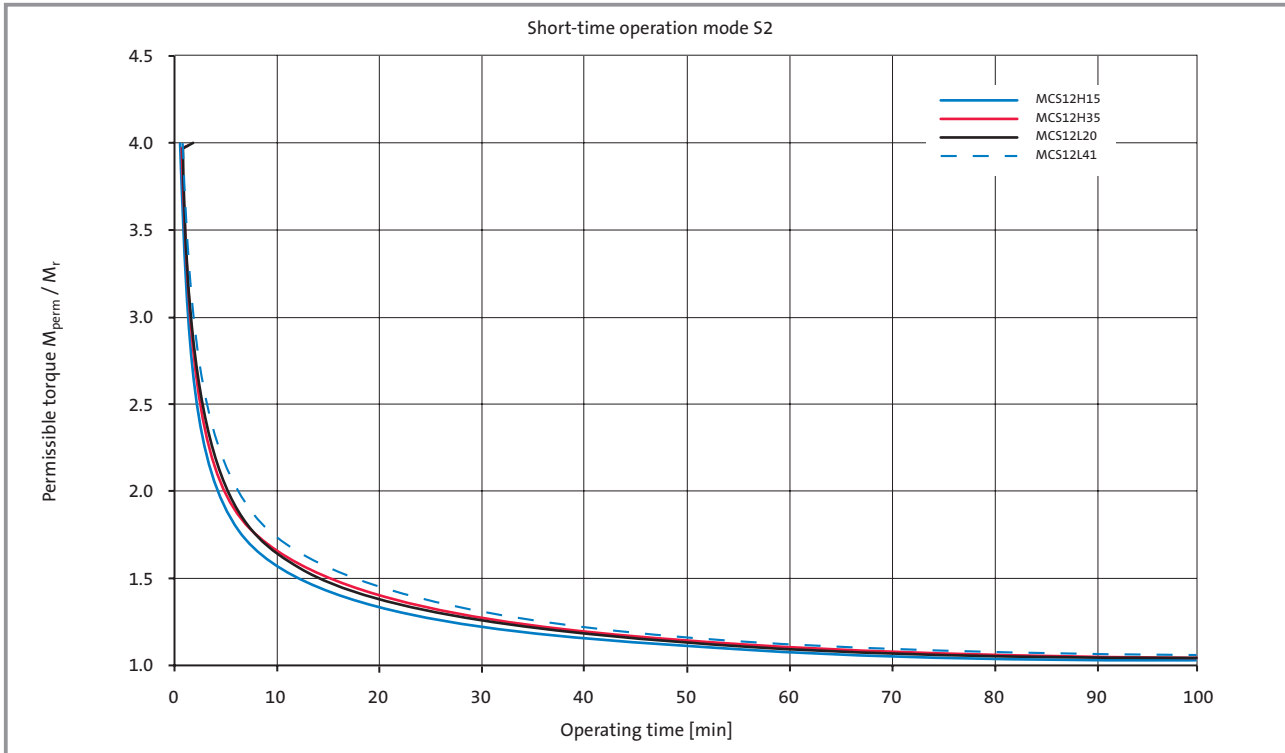
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



### Short-time operation characteristic

Lenze MCS synchronous servo motors are designed to be used in dynamic applications with high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating

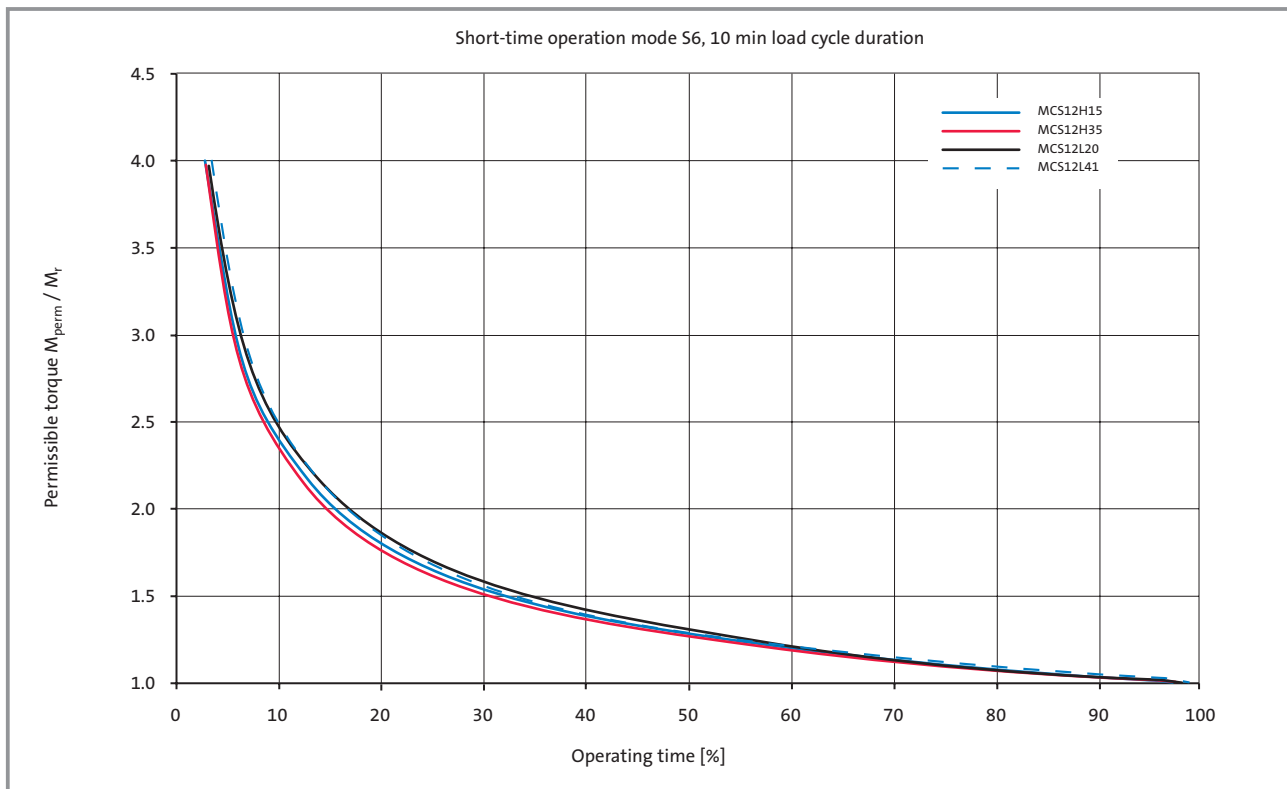
modes S2 and S6 illustrate the permissible operating times against the torque peaks required.





## Technical data

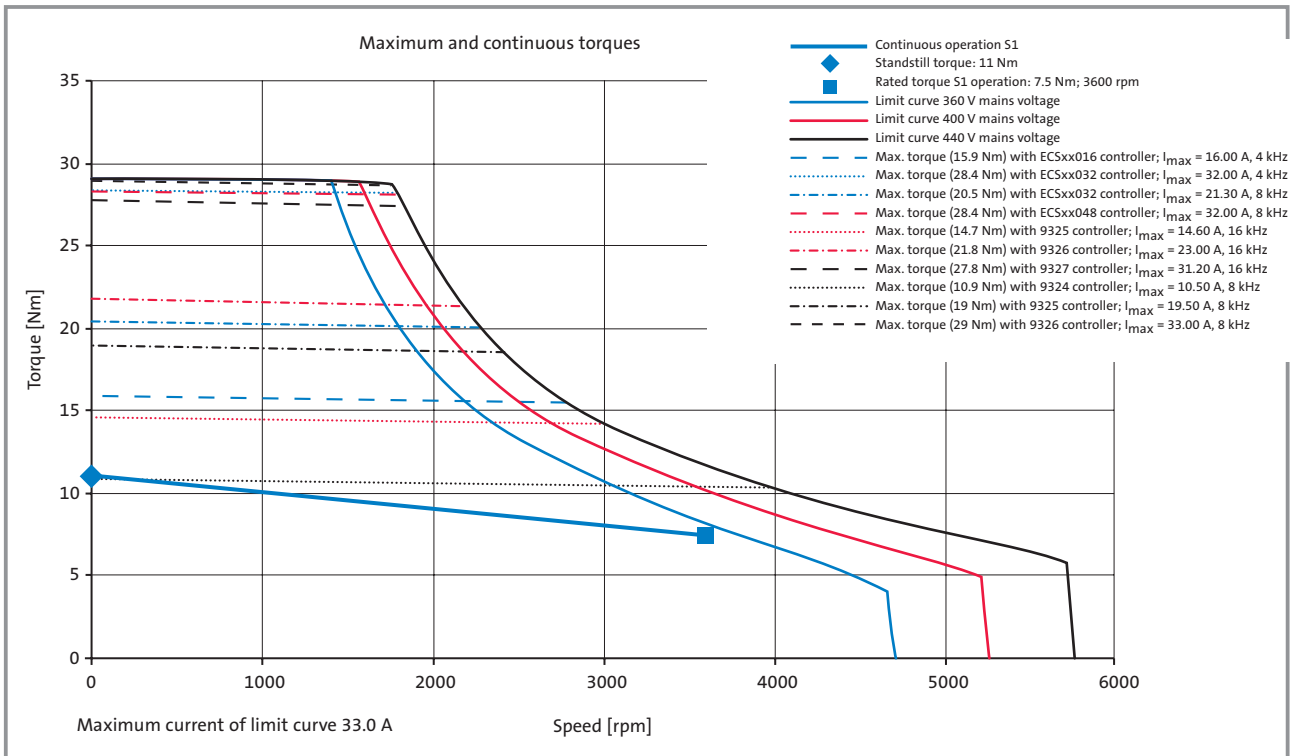
### MCS 12 synchronous servo motors



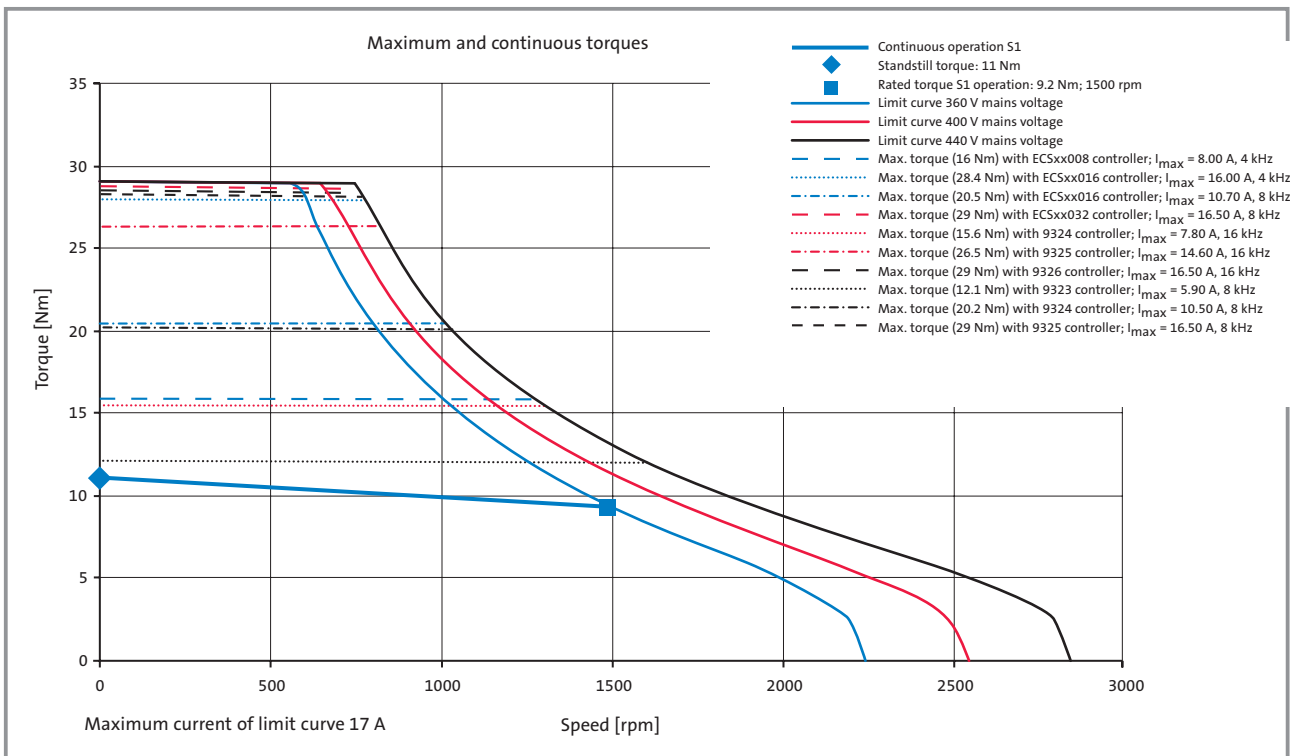


### Torque characteristics

#### MCS 14D36



#### MCS 14D15



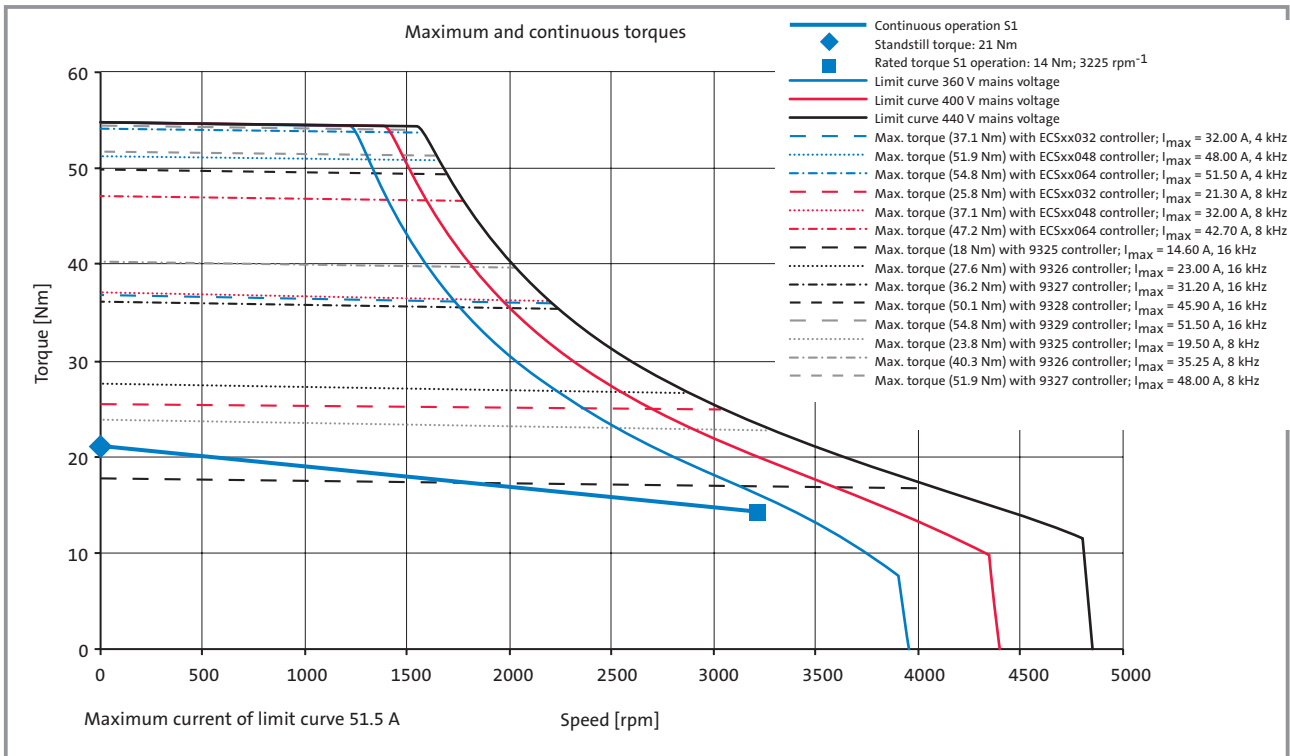
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



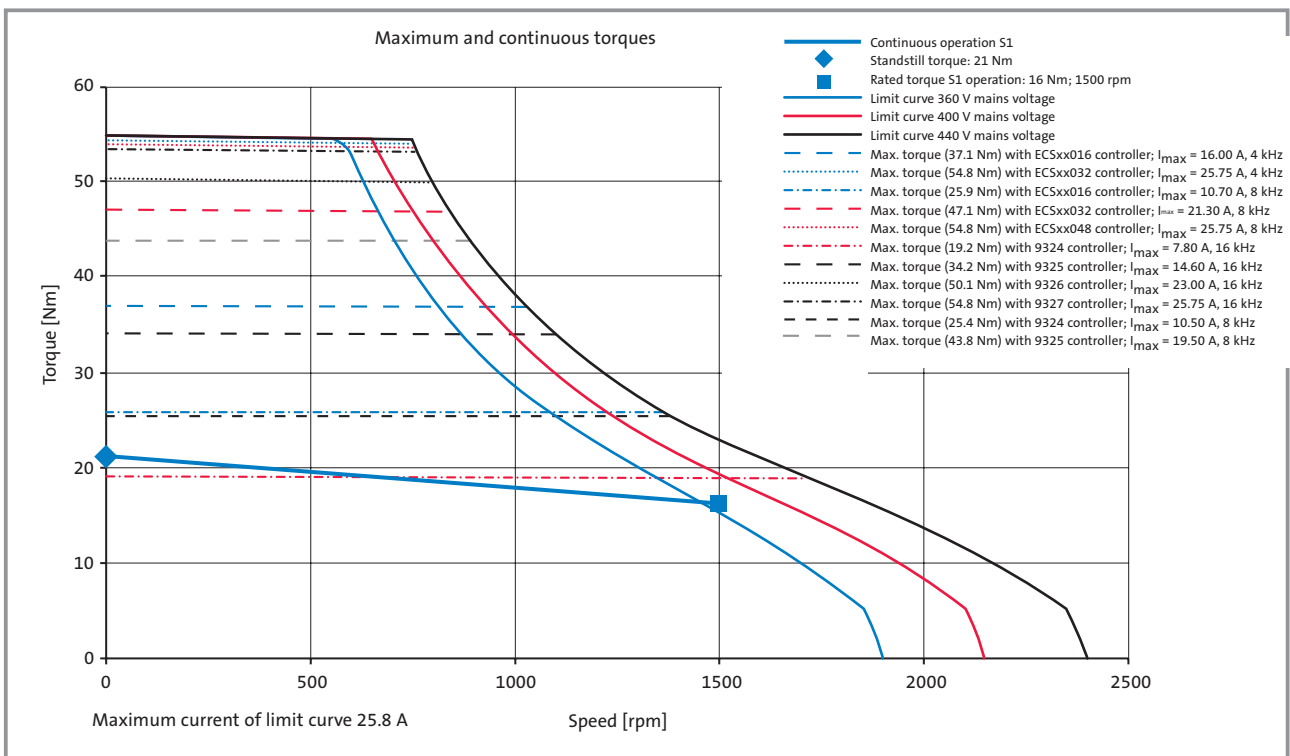
# Technical data

## MCS 14 synchronous servo motors

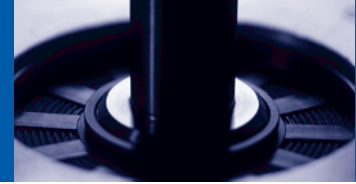
### MCS 14H32



### MCS 14H15

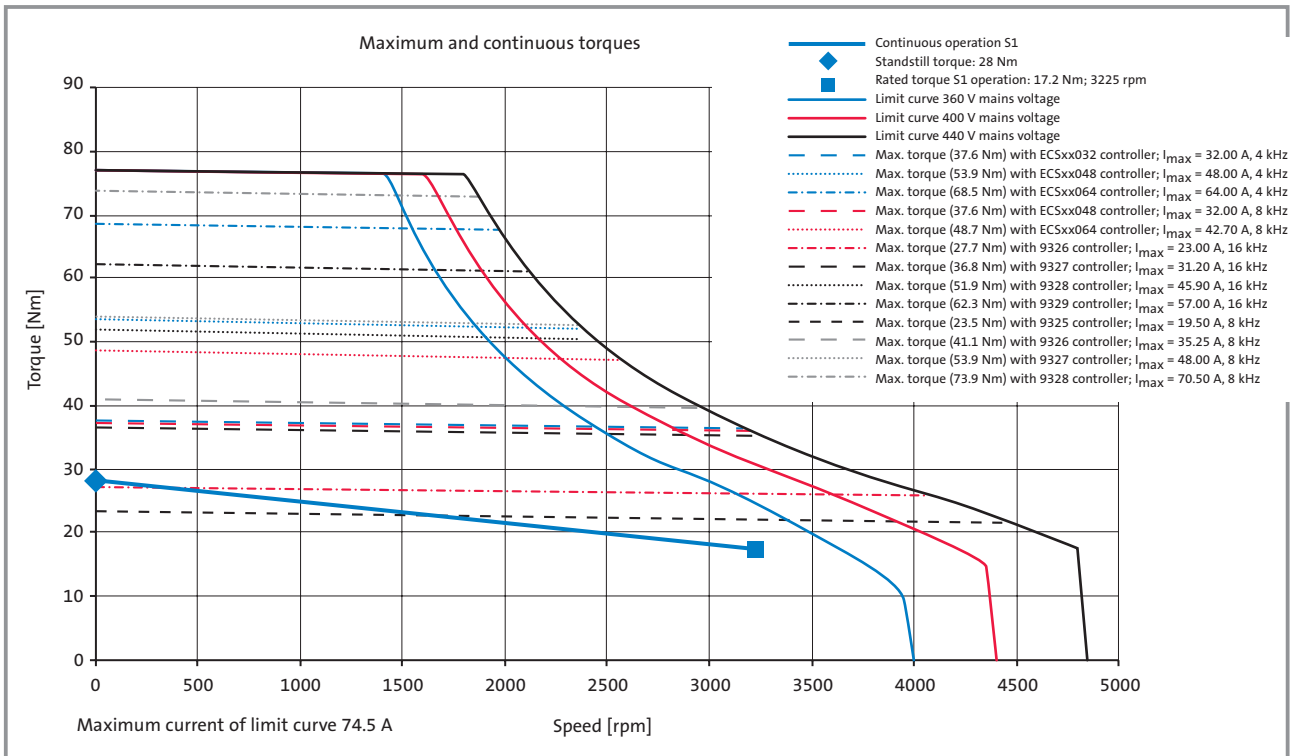


At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.

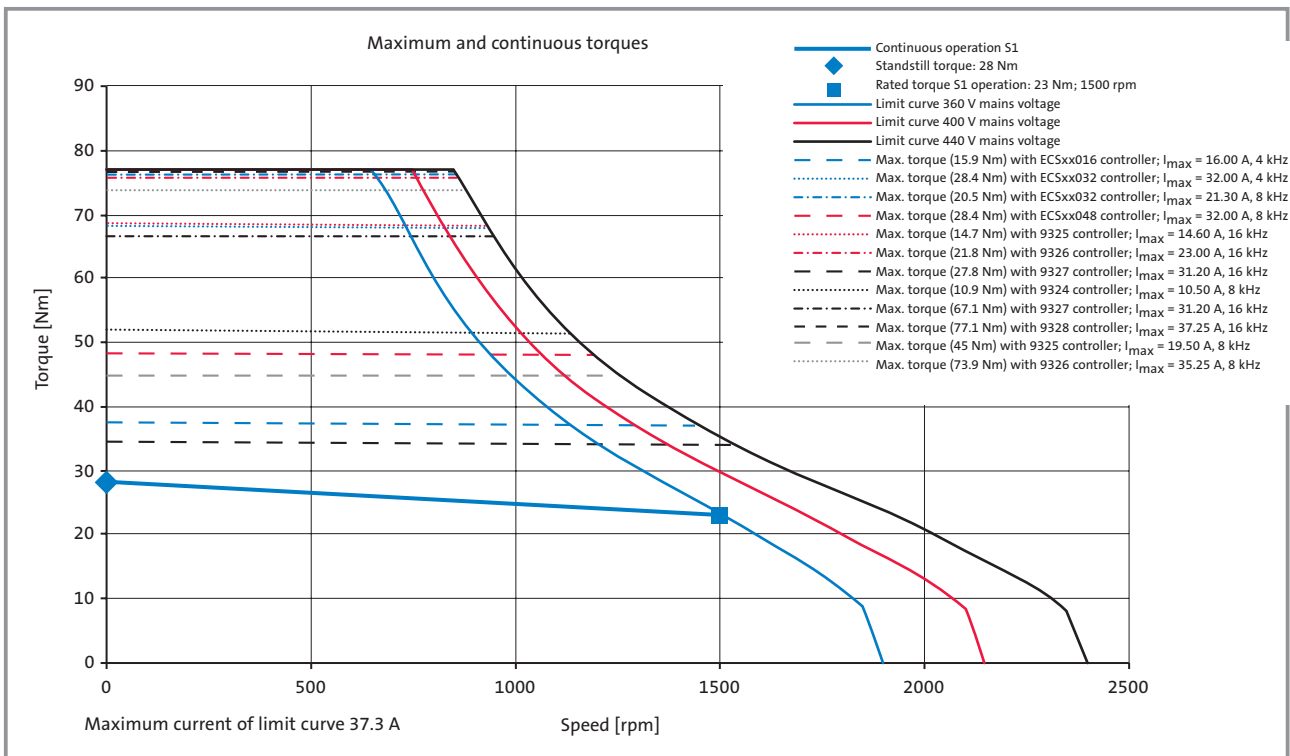


### Torque characteristics

#### MCS 14L32



#### MCS 14L15



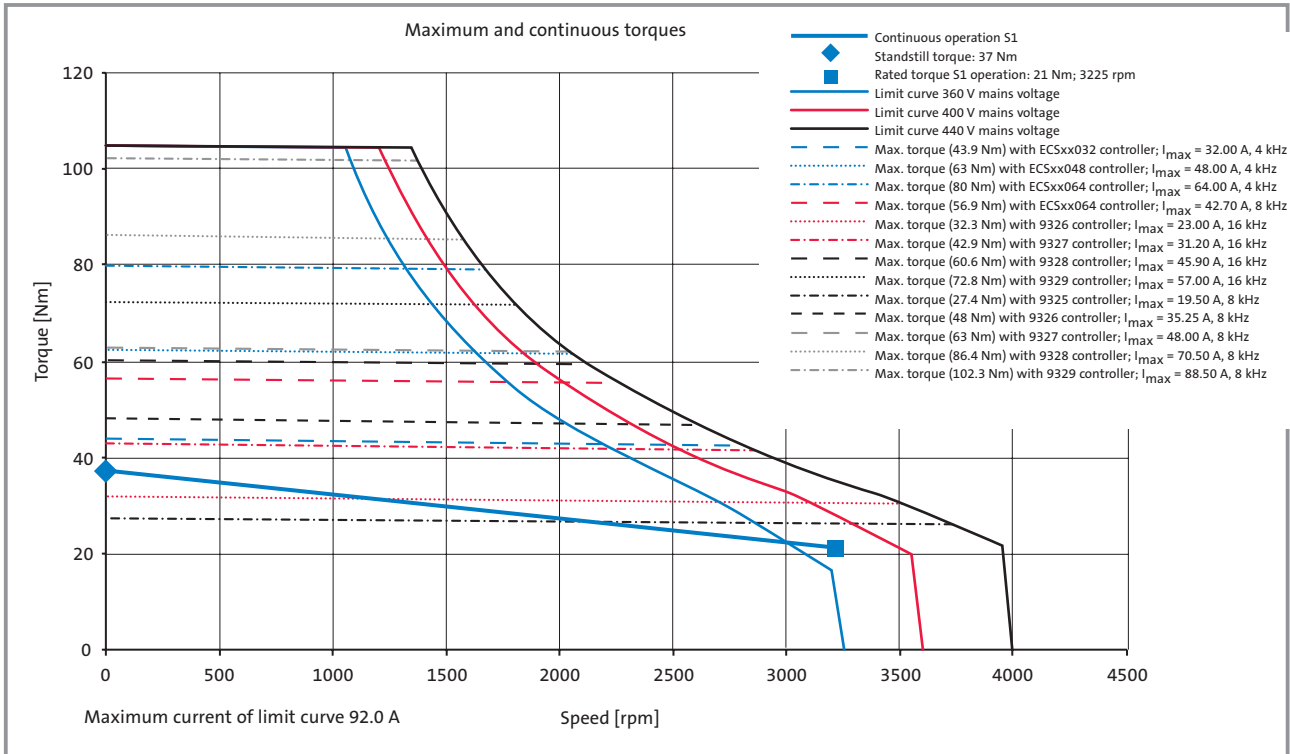
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



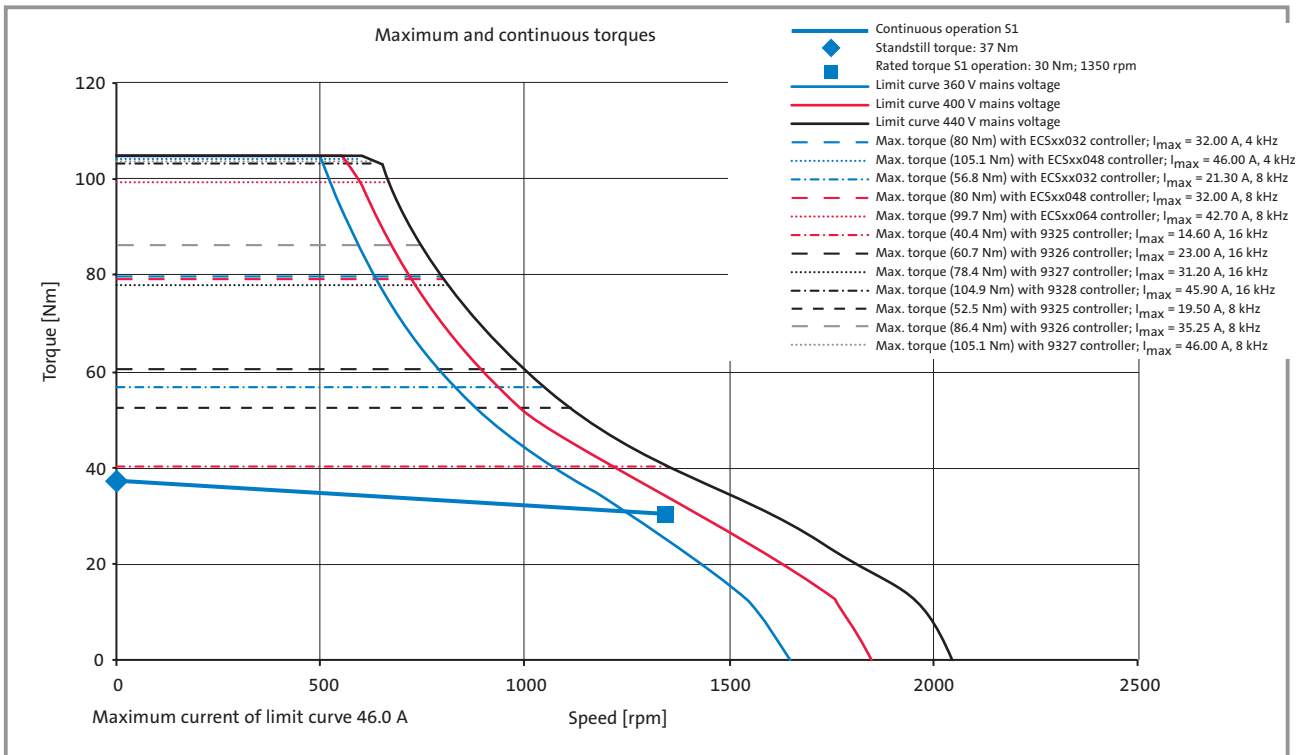
# Technical data

## MCS 14 synchronous servo motors

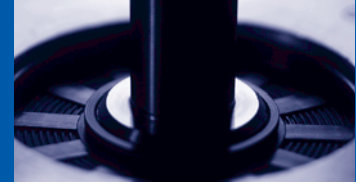
### MCS 14P32



### MCS 14P14



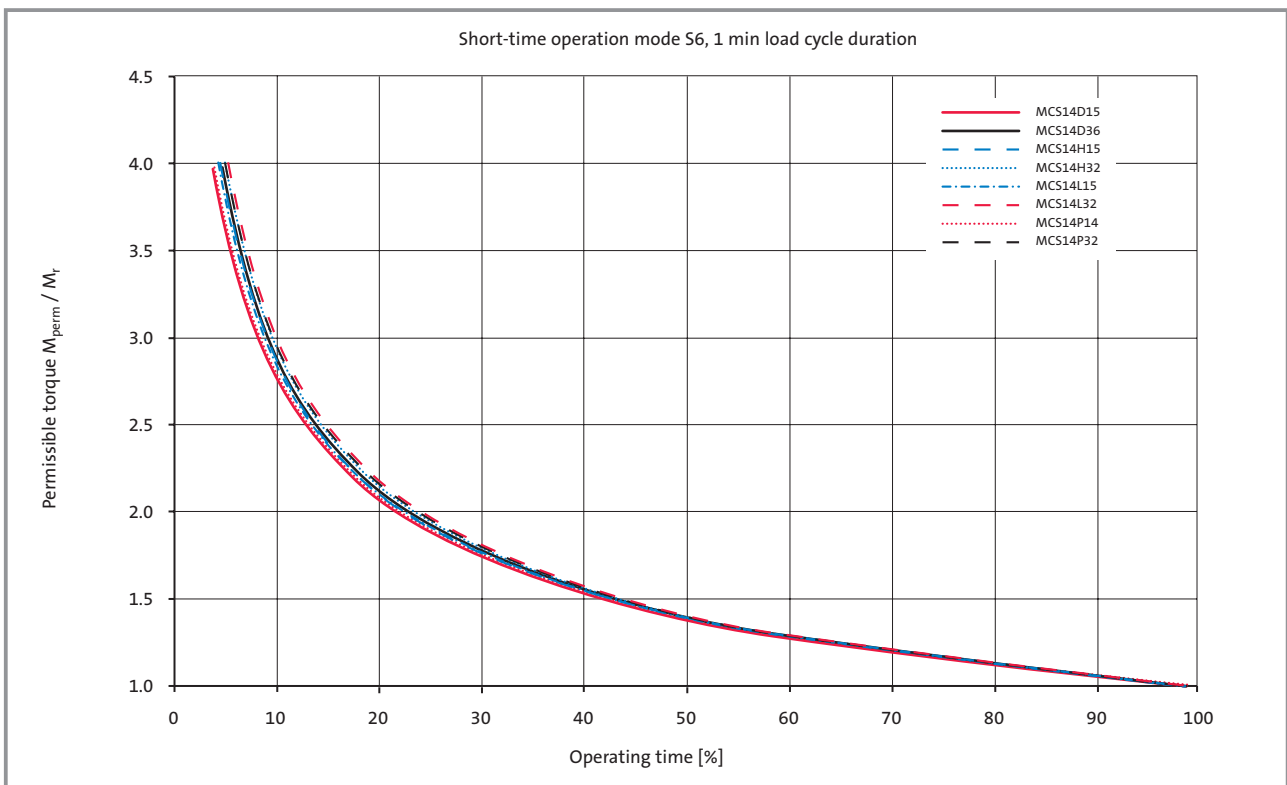
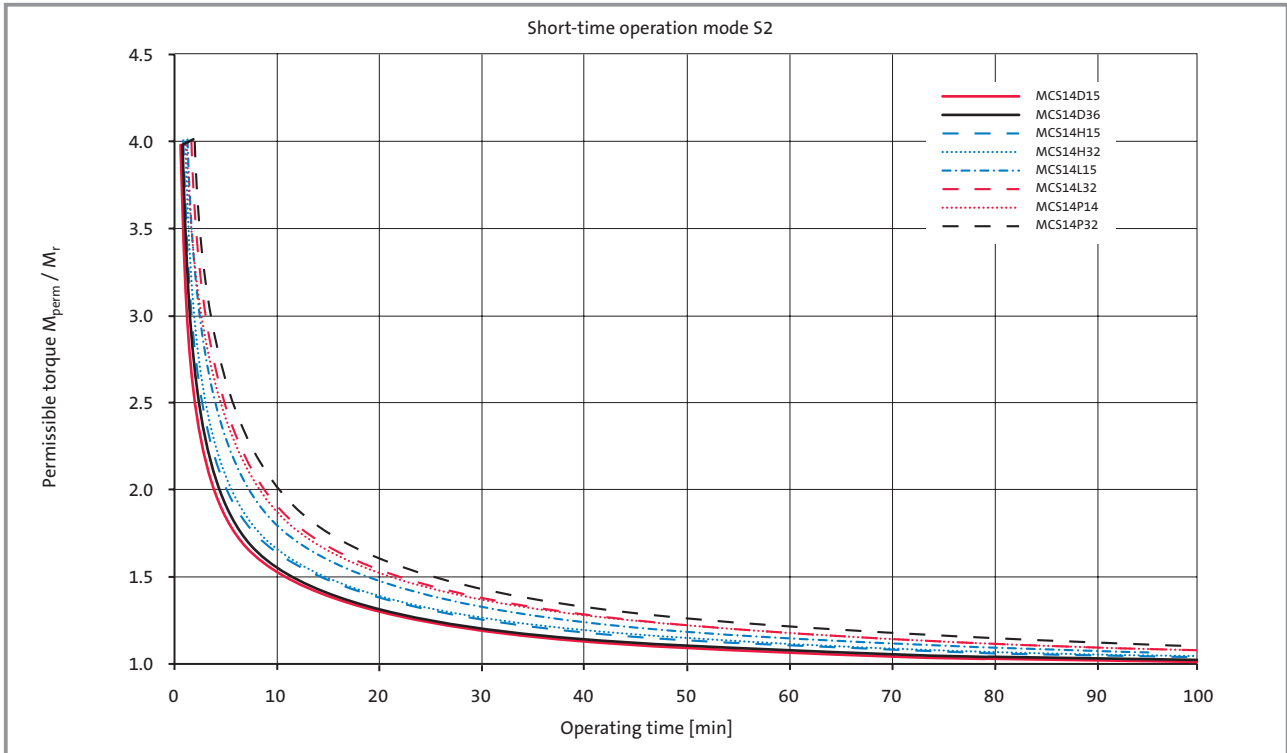
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



### Short-time operation characteristic

Lenze MCS synchronous servo motors are designed to be used in dynamic applications with high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating

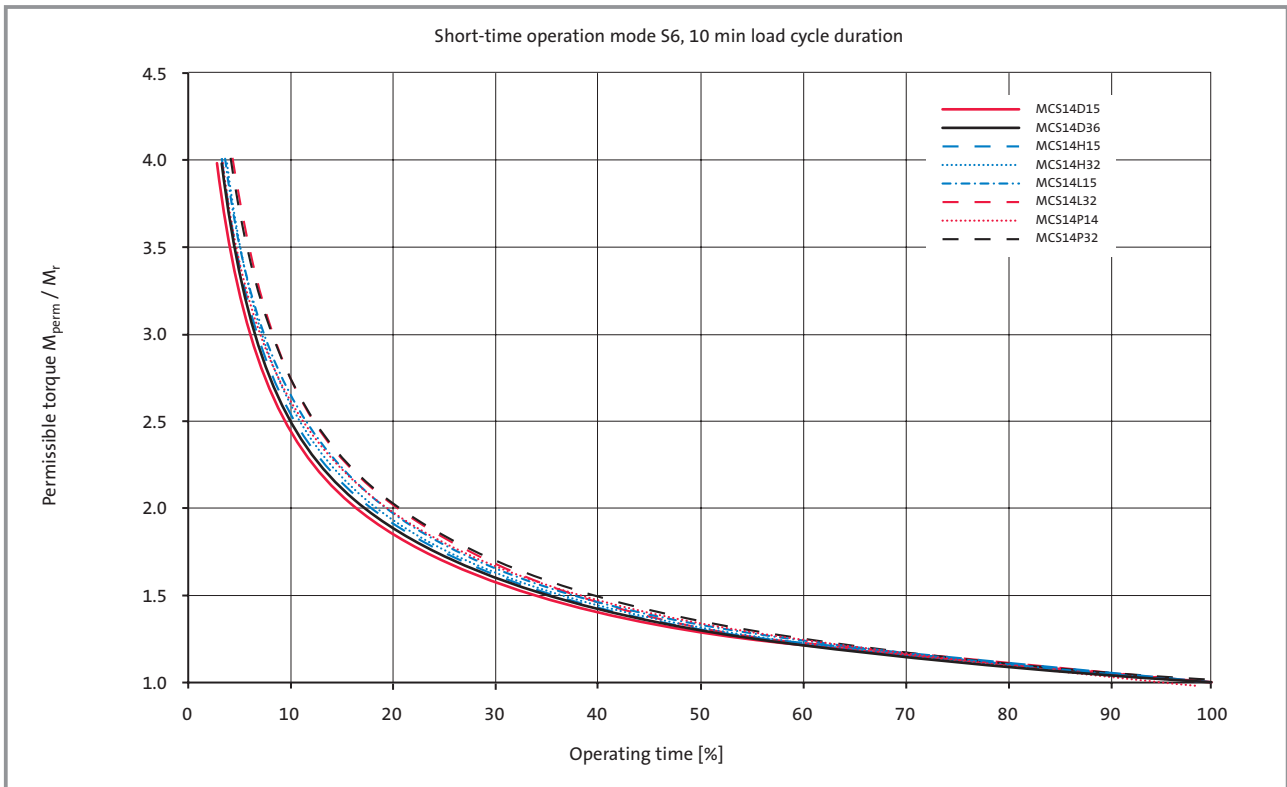
modes S2 and S6 illustrate the permissible operating times against the torque peaks required.

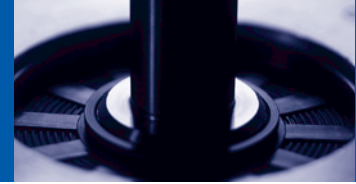




# Technical data

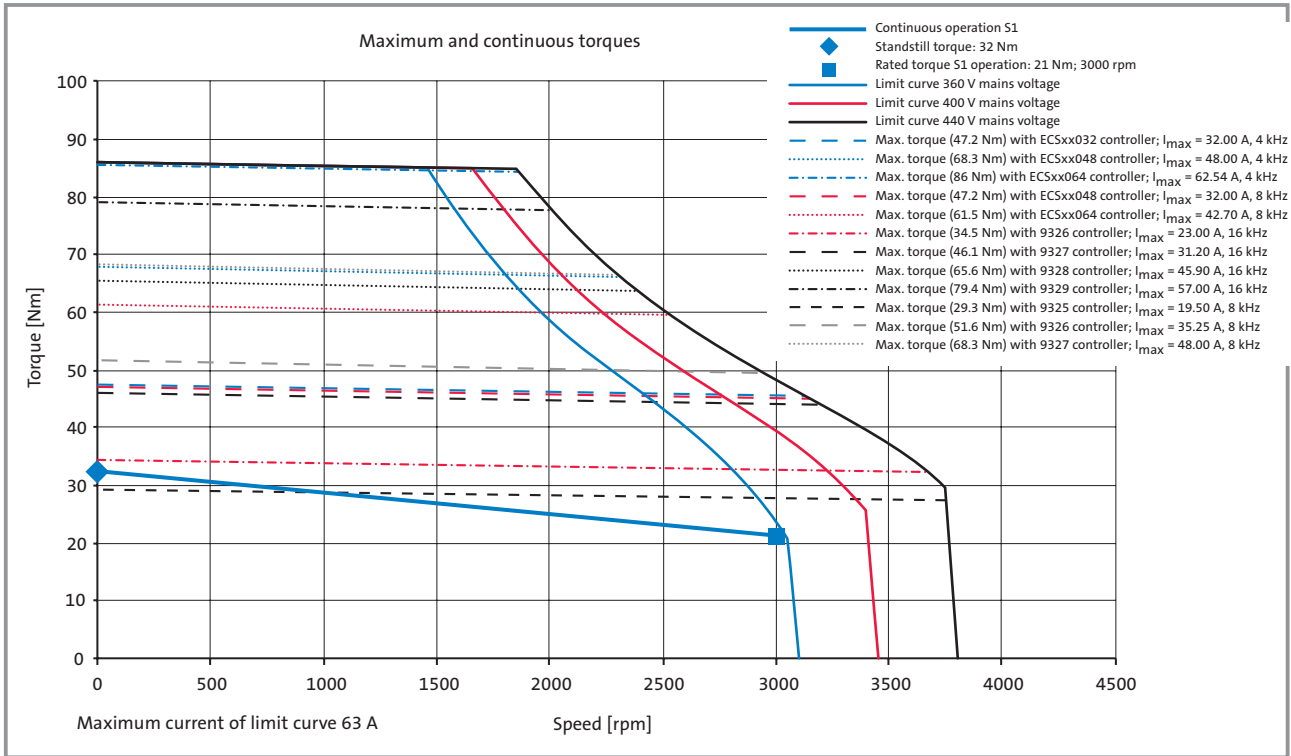
## MCS 14 synchronous servo motors



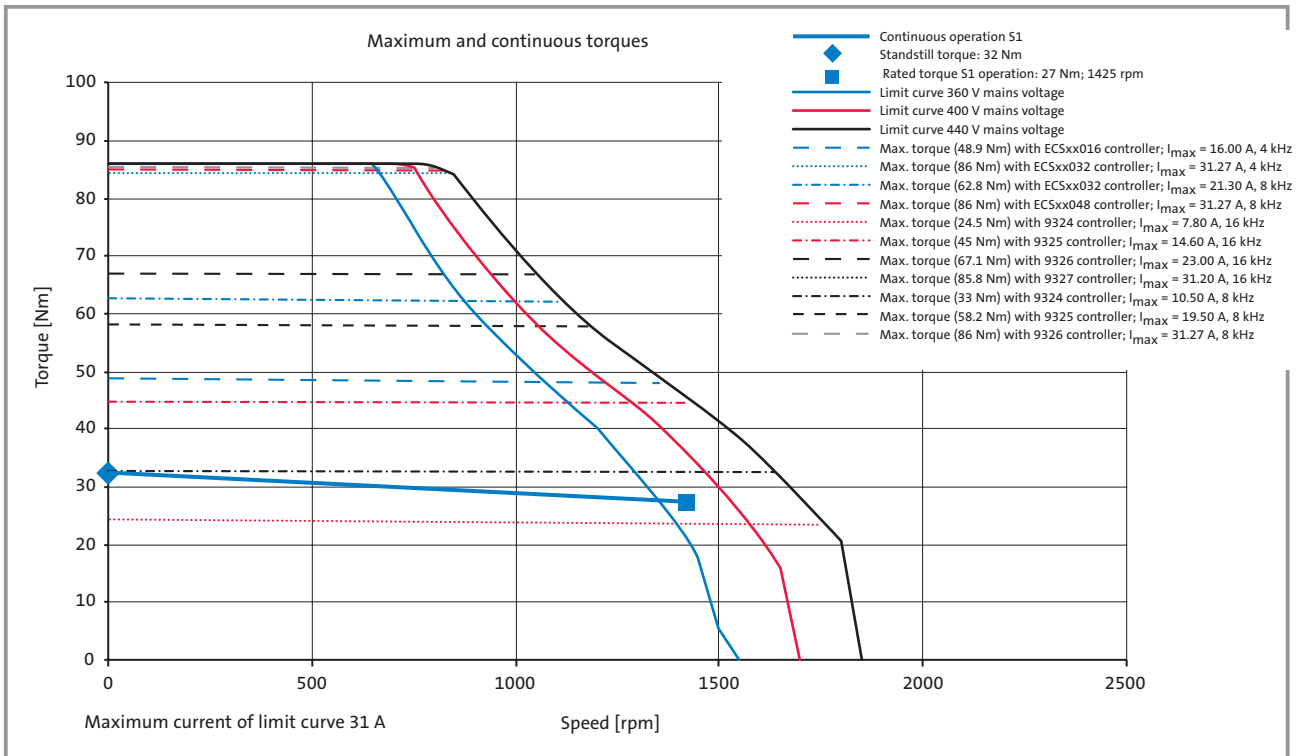


### Torque characteristics

#### MCS 19F30



#### MCS 19F14



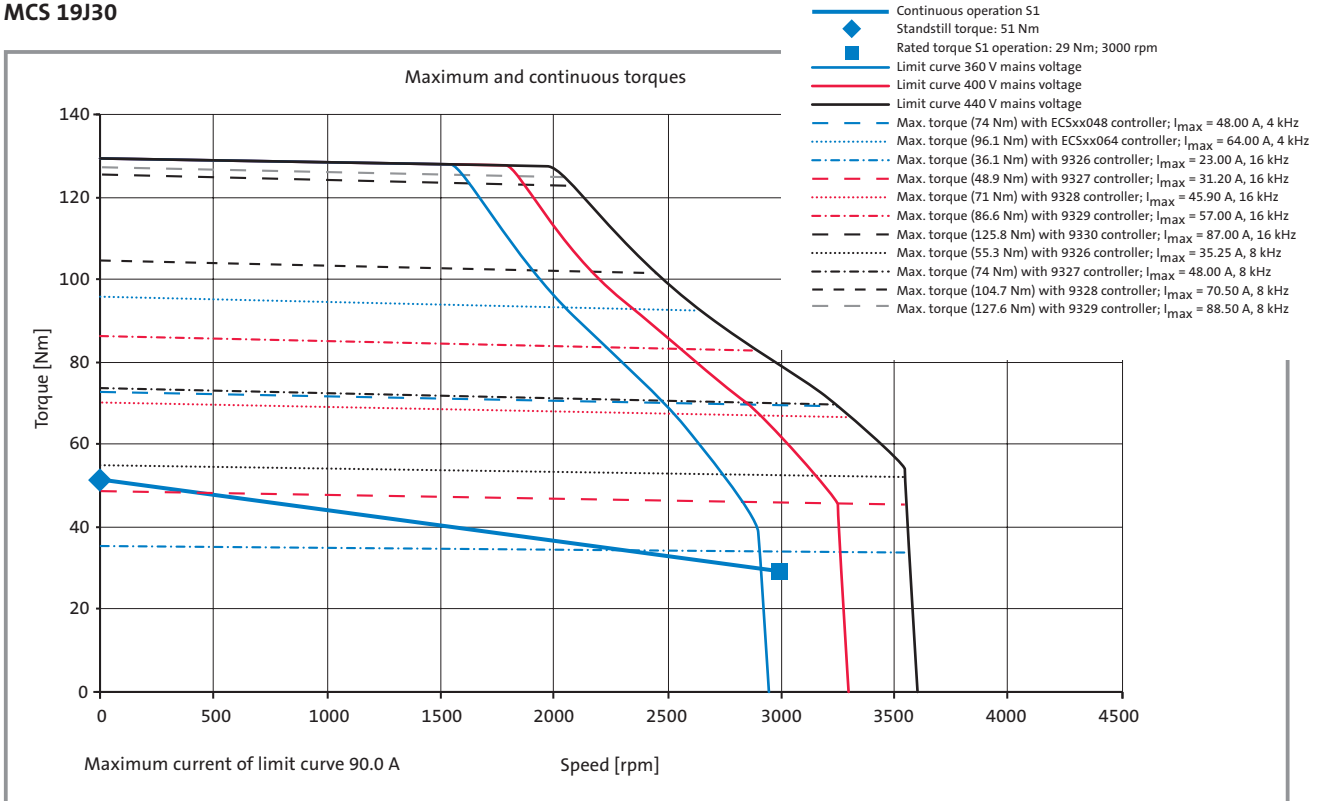
At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



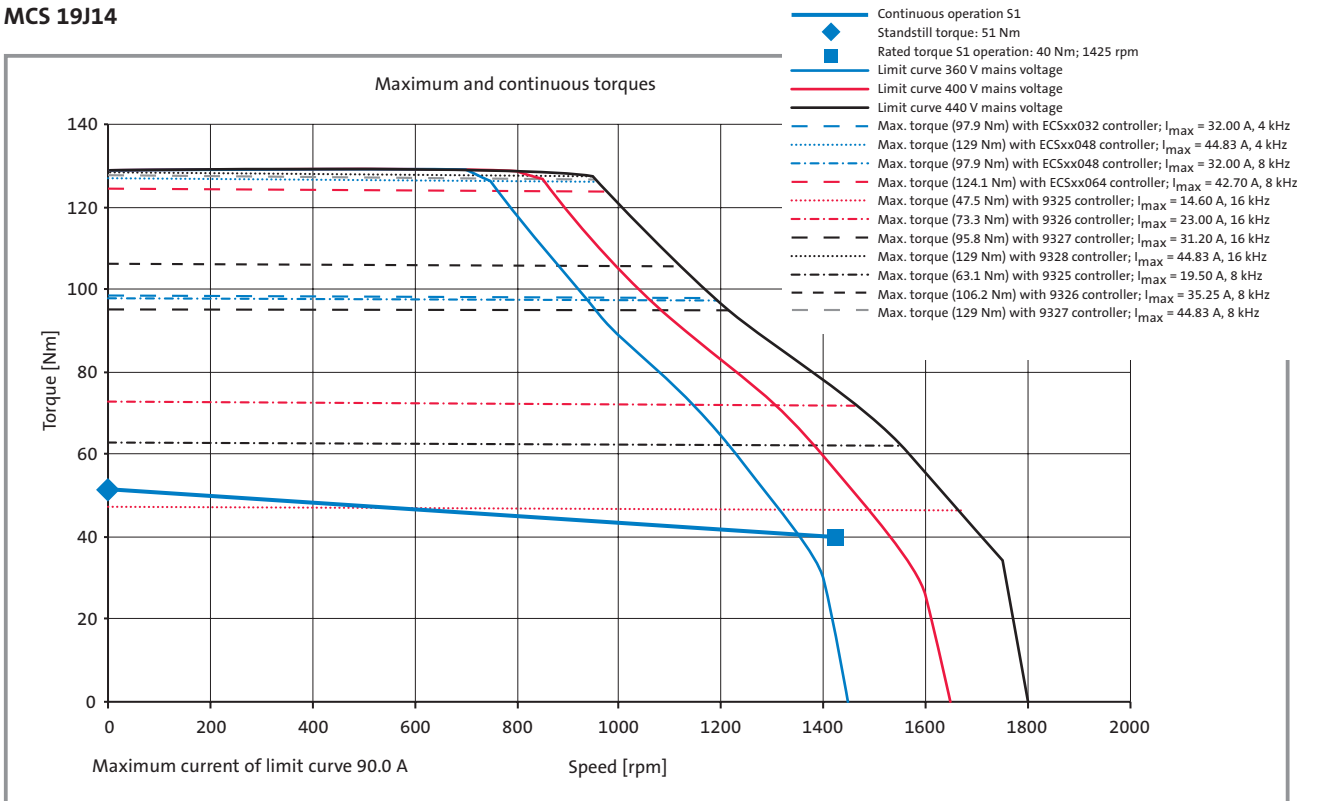
# Technical data

## MCS 19 synchronous servo motors

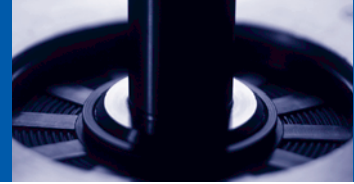
### MCS 19J30



### MCS 19J14

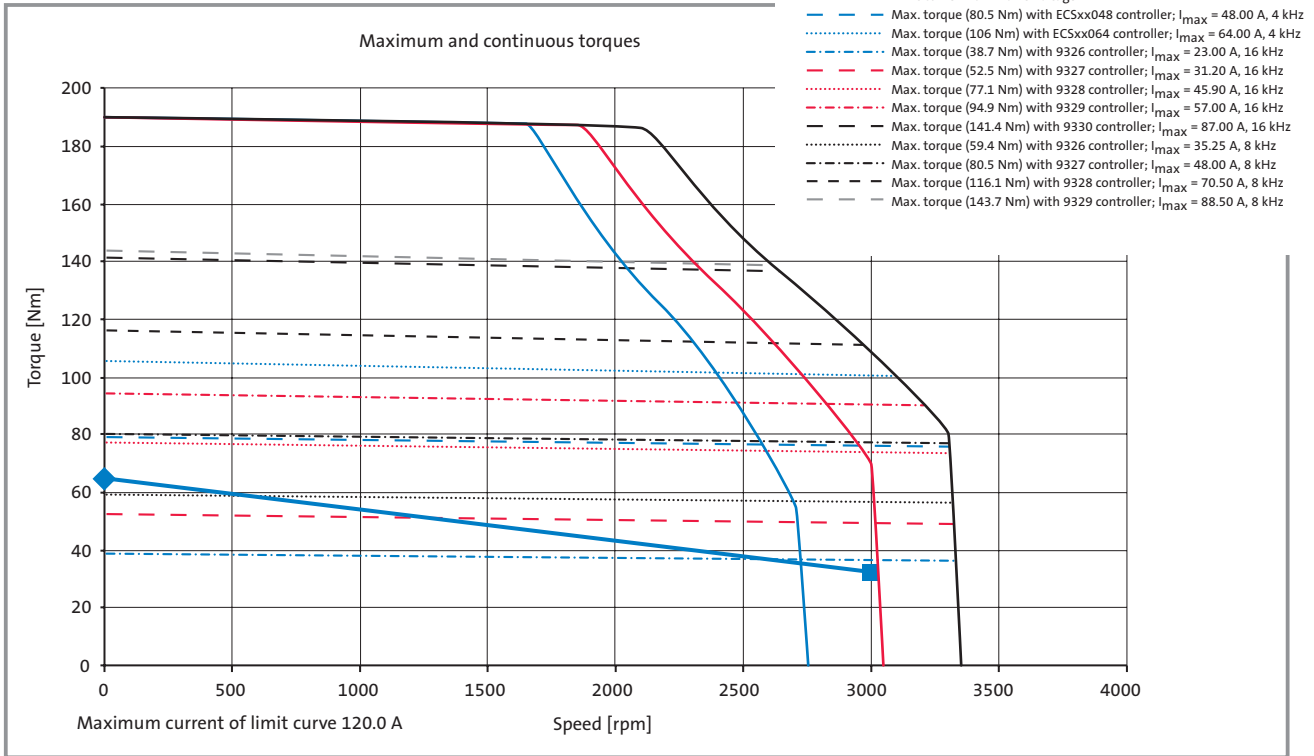


At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.

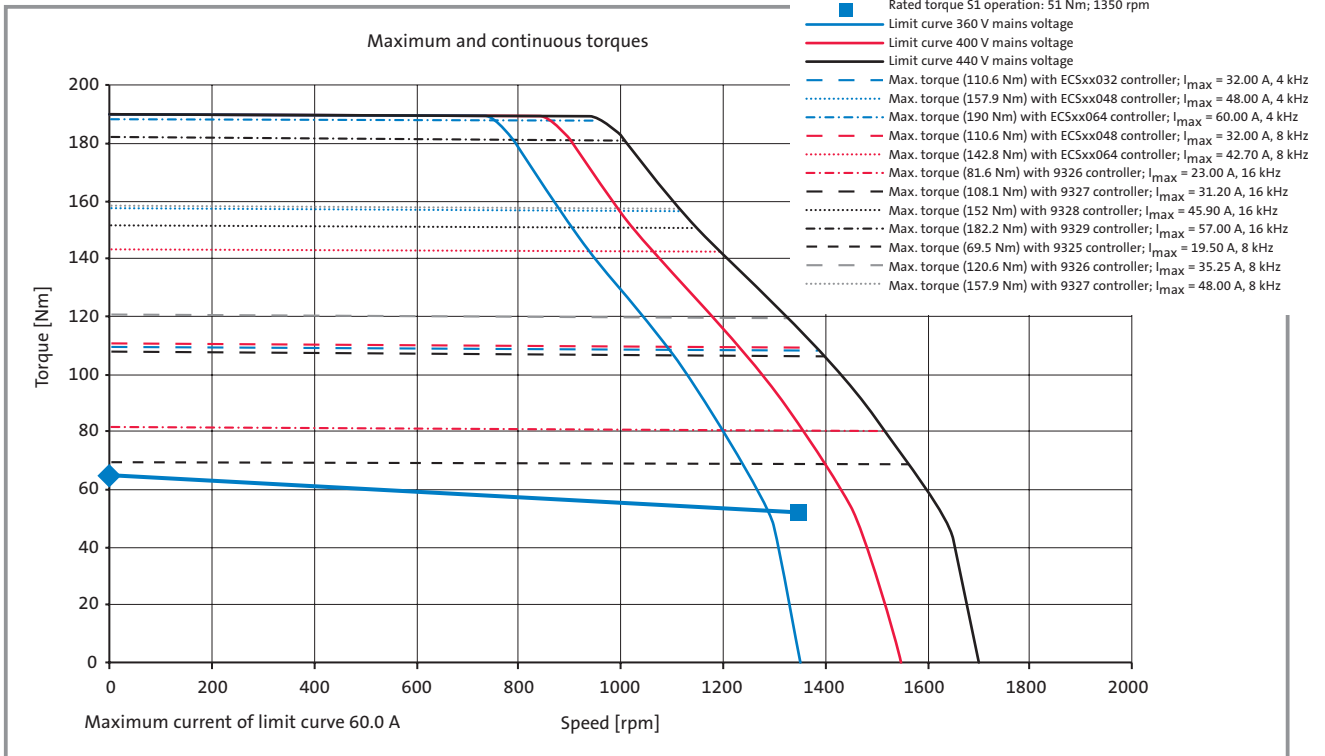


### Torque characteristics

#### MCS 19P30



#### MCS 19P14



At speeds < 75 rpm servo controller derating may need to be taken into account. See "Servo controller assignment" tables.



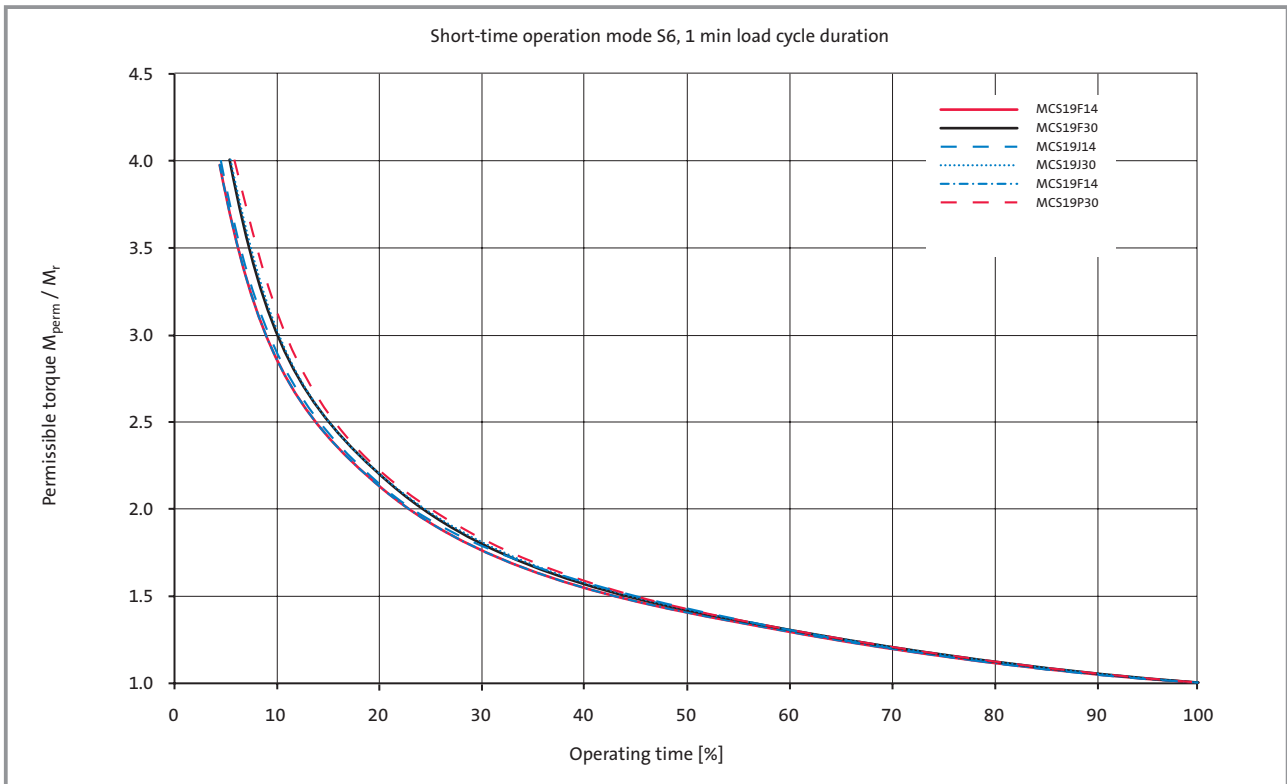
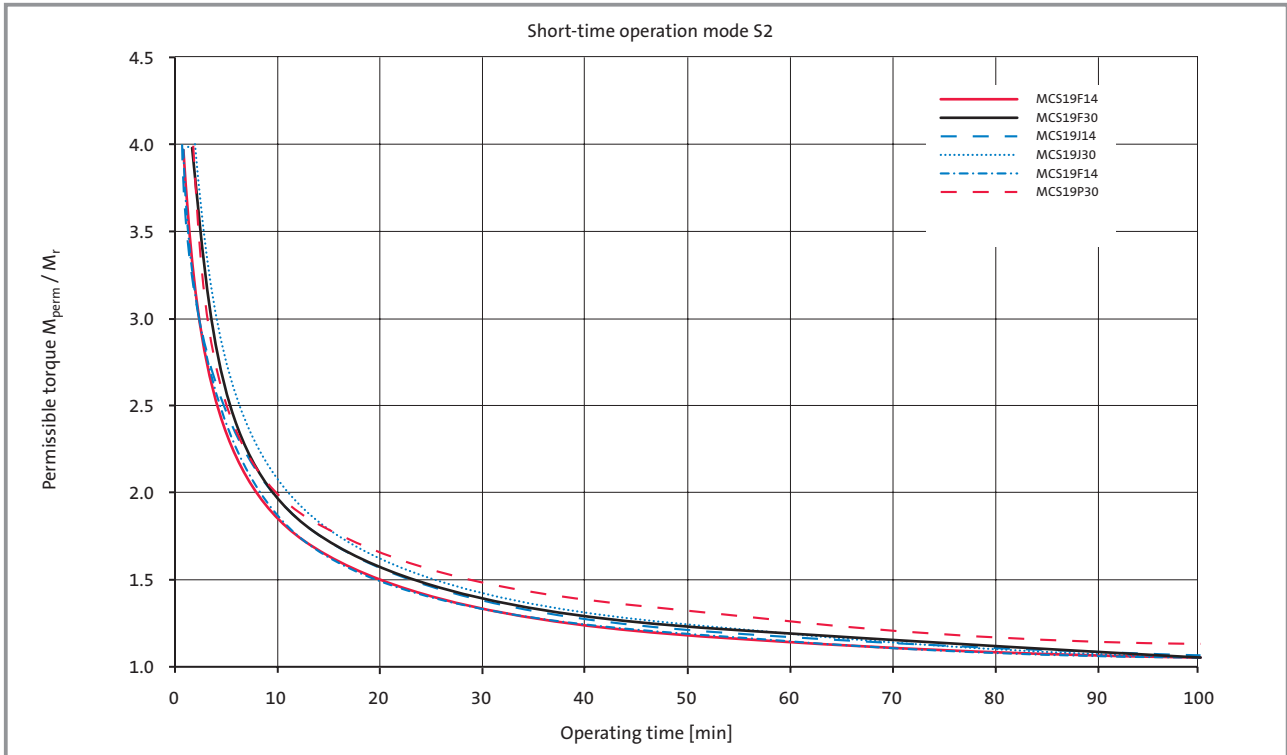
# Technical data

## MCS 19 synchronous servo motors

### Short-time operation characteristic

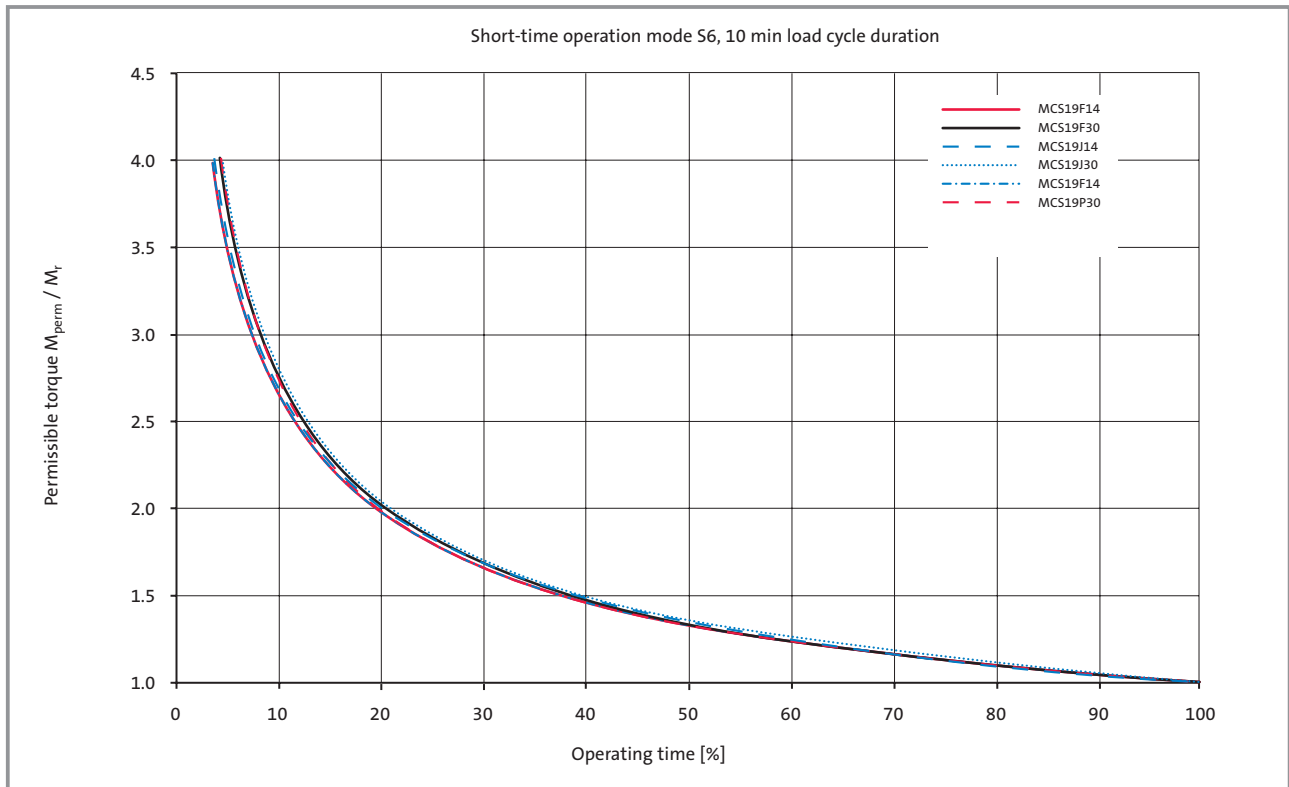
Lenze MCS synchronous servo motors are designed to be used in dynamic applications with high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating

modes S2 and S6 illustrate the permissible operating times against the torque peaks required.



# Technical data

## MCS 19 synchronous servo motors





## Technical data

### MCS synchronous servo motors

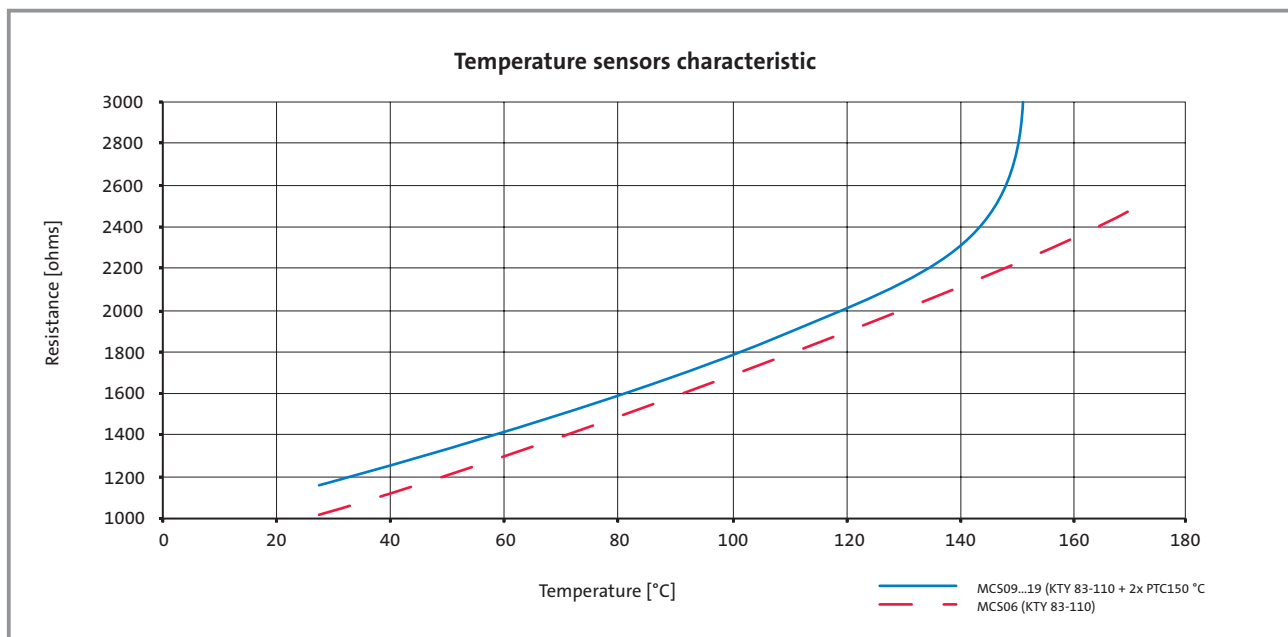
The thermal sensors used in the MCS motors continually monitor the motor temperature. The temperature information is passed to the servo controller via the system cable of the feedback system. Due to the varying physical conditions, two different types of temperature monitoring mechanisms are used with the MCS motors (neither provide full motor protection).

#### MCS 06

In this motor, the winding temperature of a winding phase is monitored by a KTY 83-110 thermal sensor.

#### MCS 09-MCS 19

These motors are monitored by three thermal sensors connected in series (1x KTY 83-110 + 2x PTC 150 °C). This enables the normal operating temperature of the motor to be measured very accurately and also, in the event of an overtemperature in one of the winding phases, allows the controller to carry out the appropriate action.



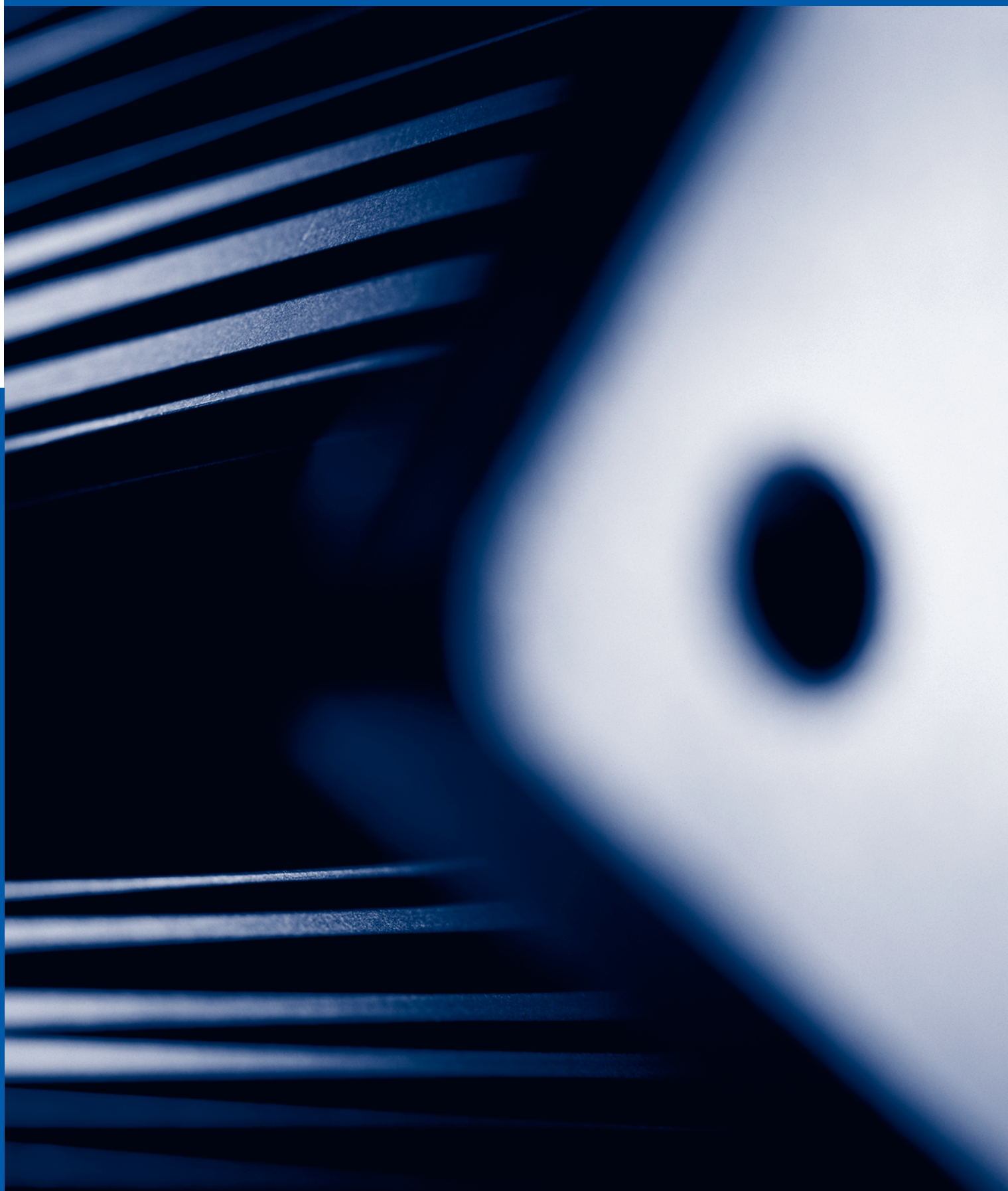
If the sensor is supplied with a measured current of 1 mA, the above relationship between the temperature and the resistance applies.

**Note:**

To ensure trouble-free operation, the thermal sensor must be connected to the servo controller with the correct polarity.

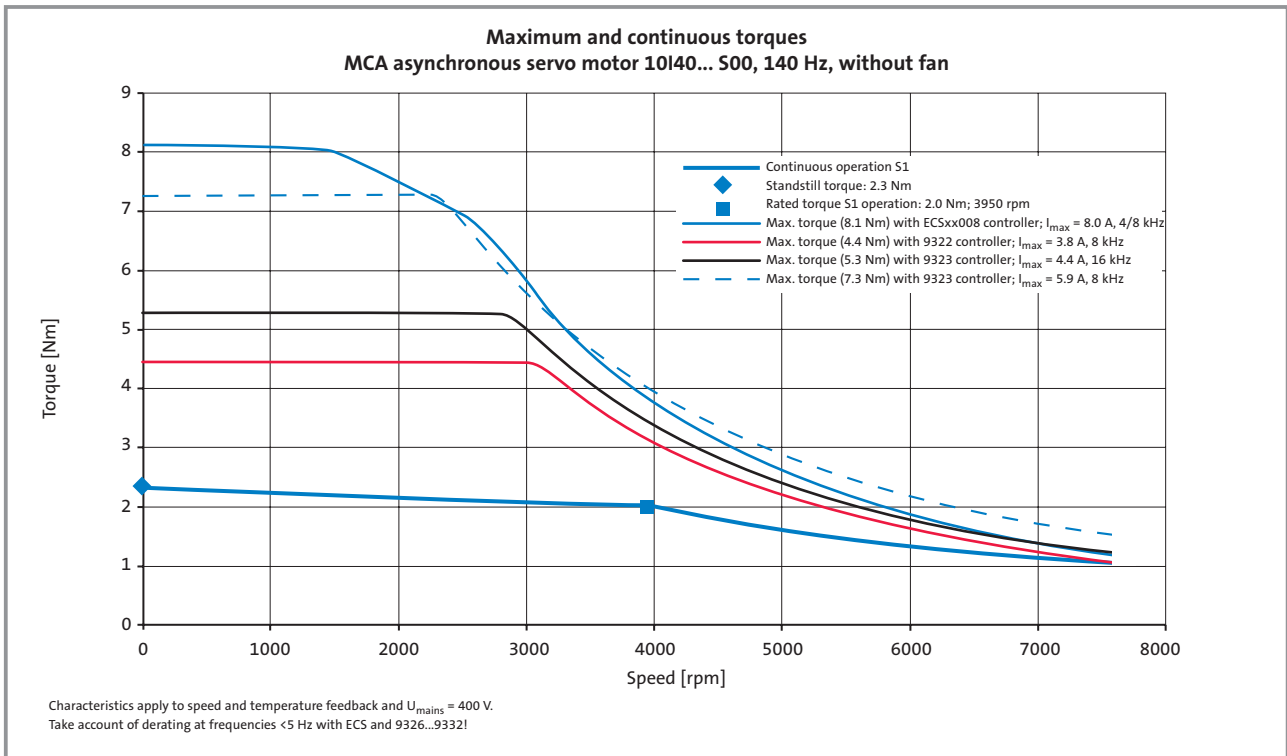
# Servomotori asincroni MCA

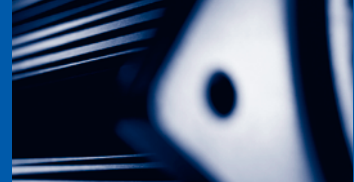
Curve di coppia



### Torque characteristics

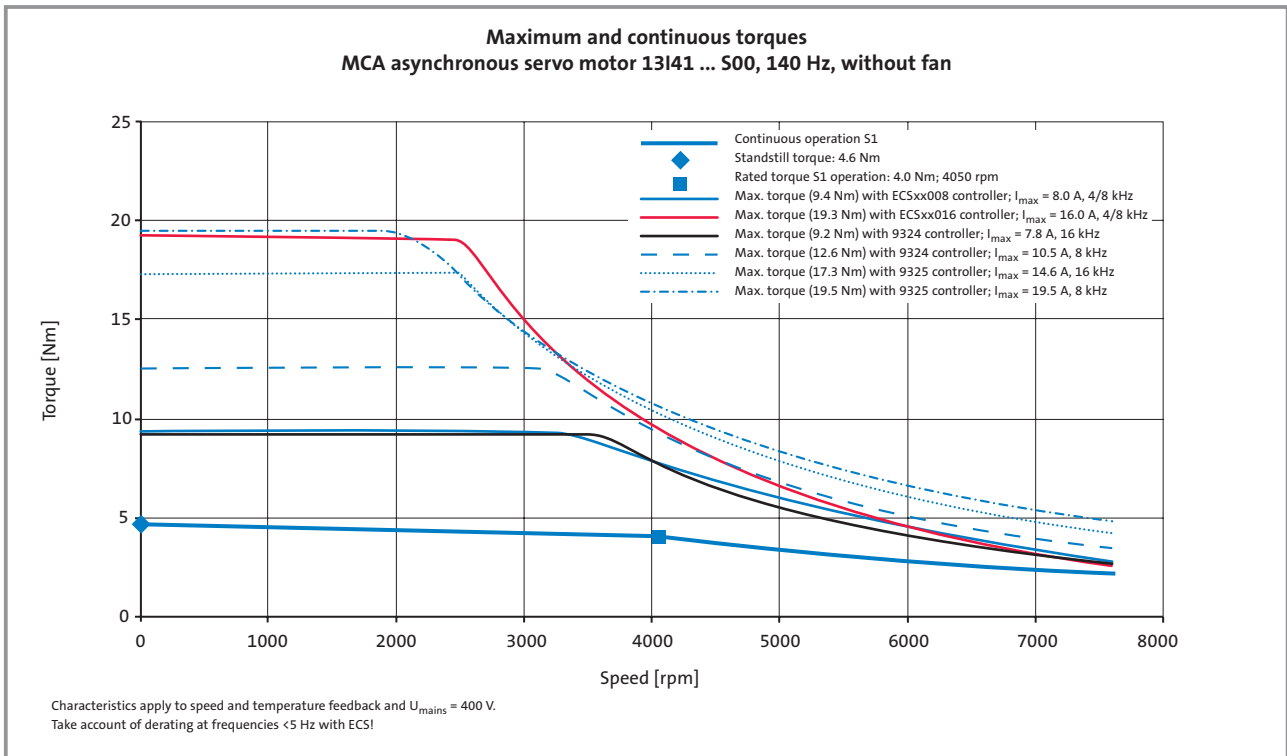
MCA 10I40...S00



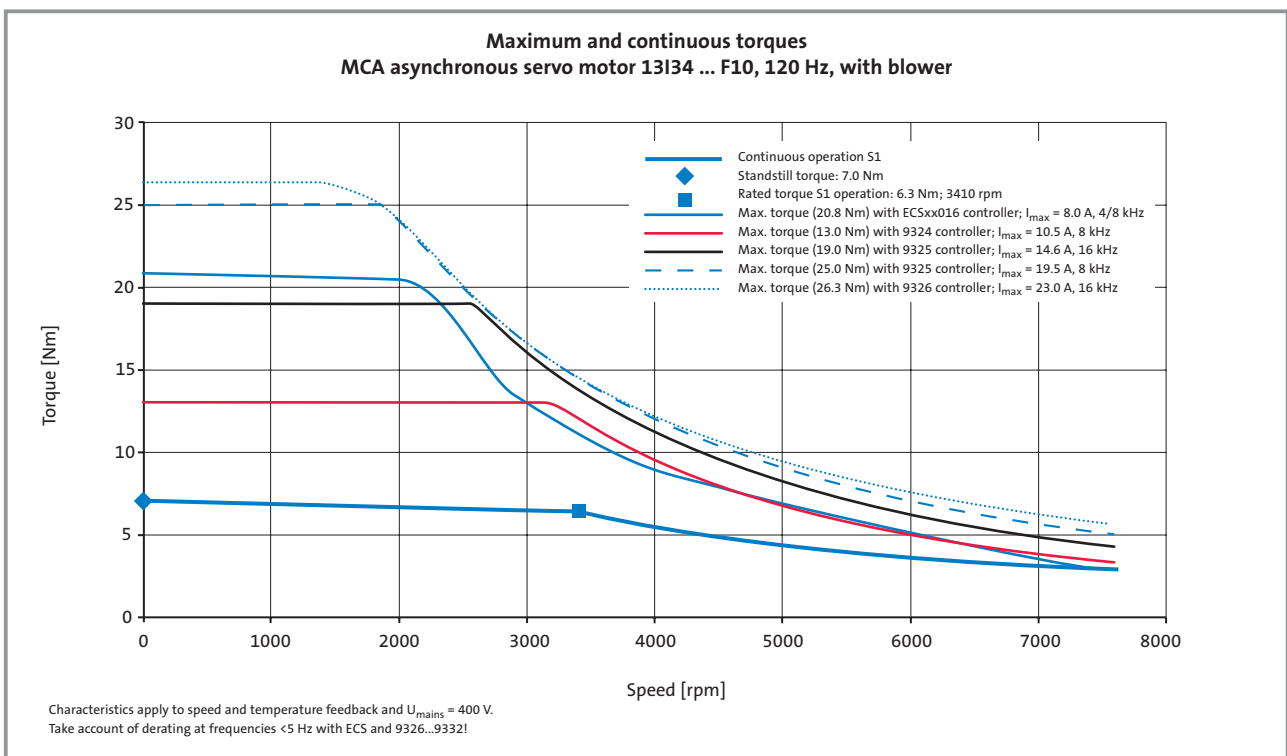


### Torque characteristics

#### MCA 13I41...S00



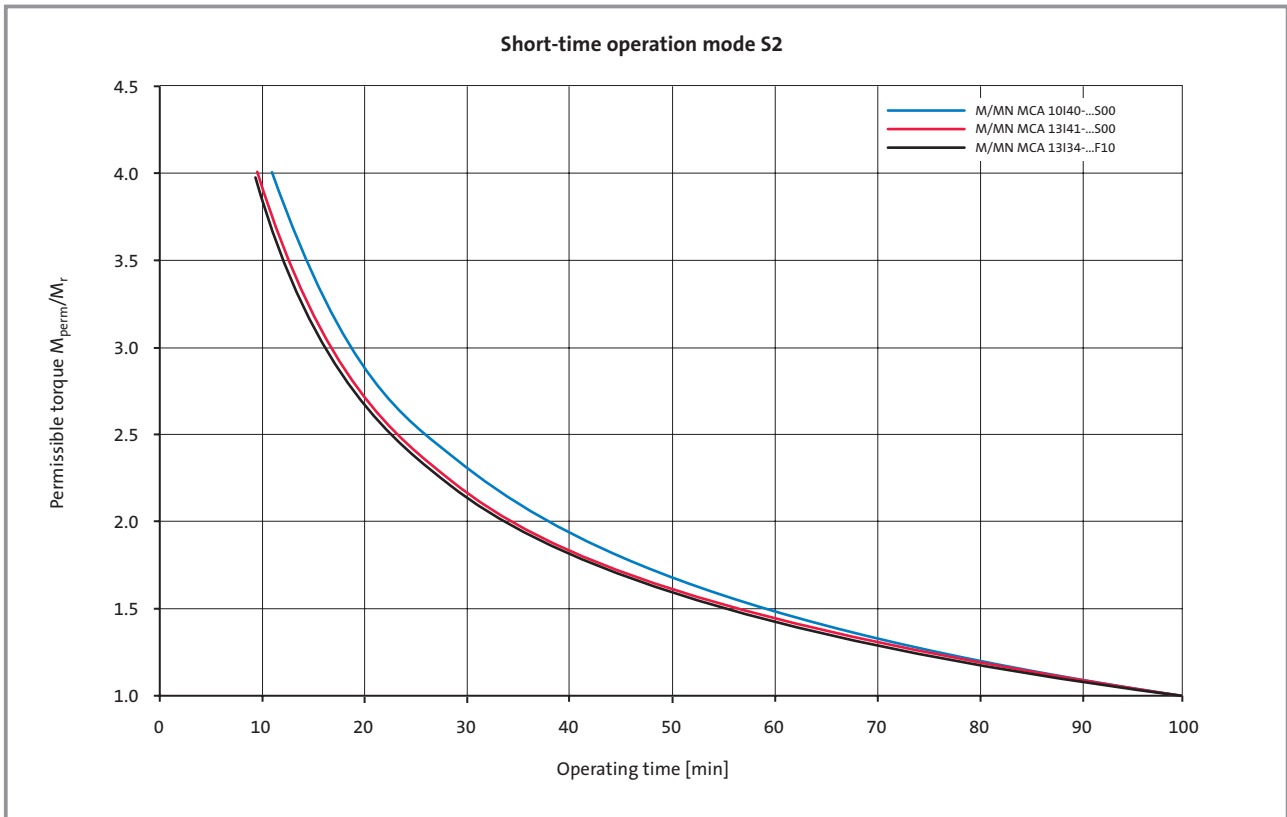
#### MCA 13I34...F10

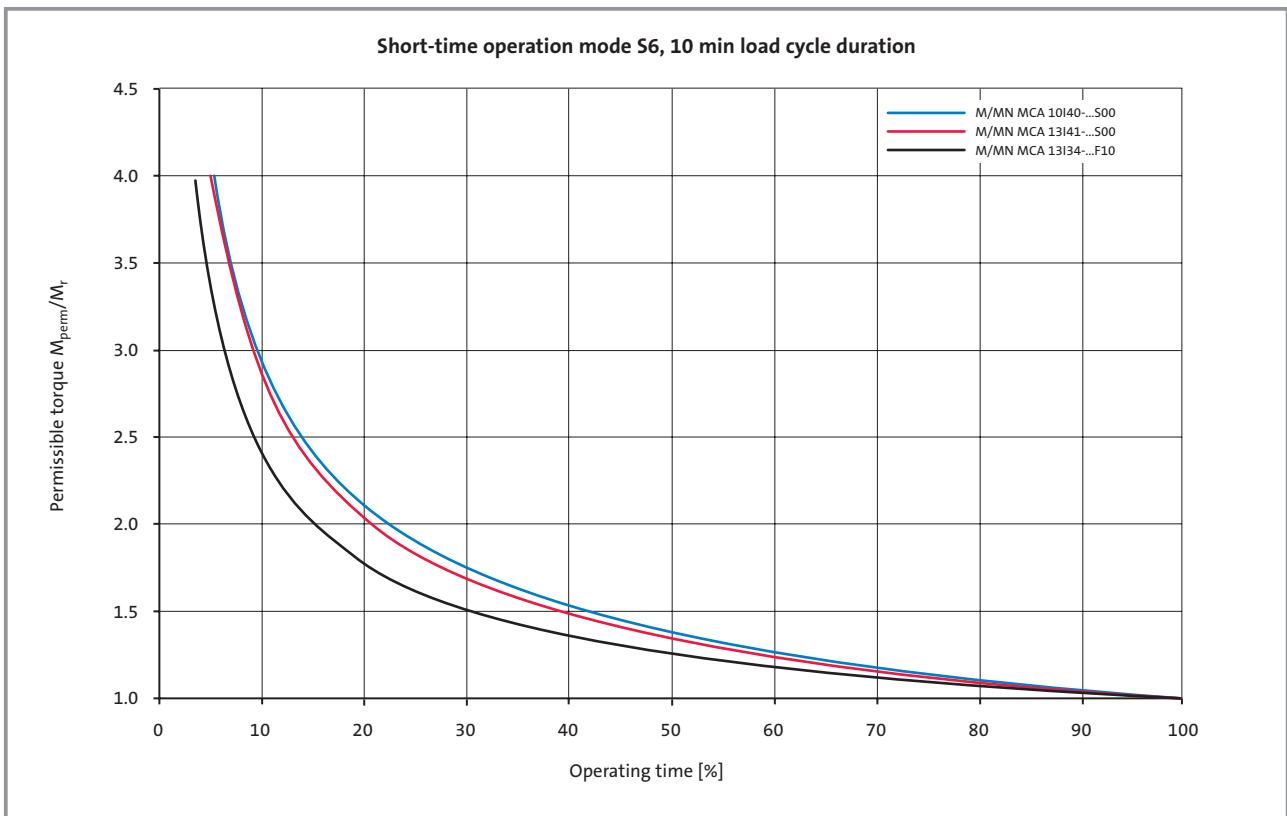


### Short-time operation characteristic

Lenze MCA servo motors have high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating modes S2

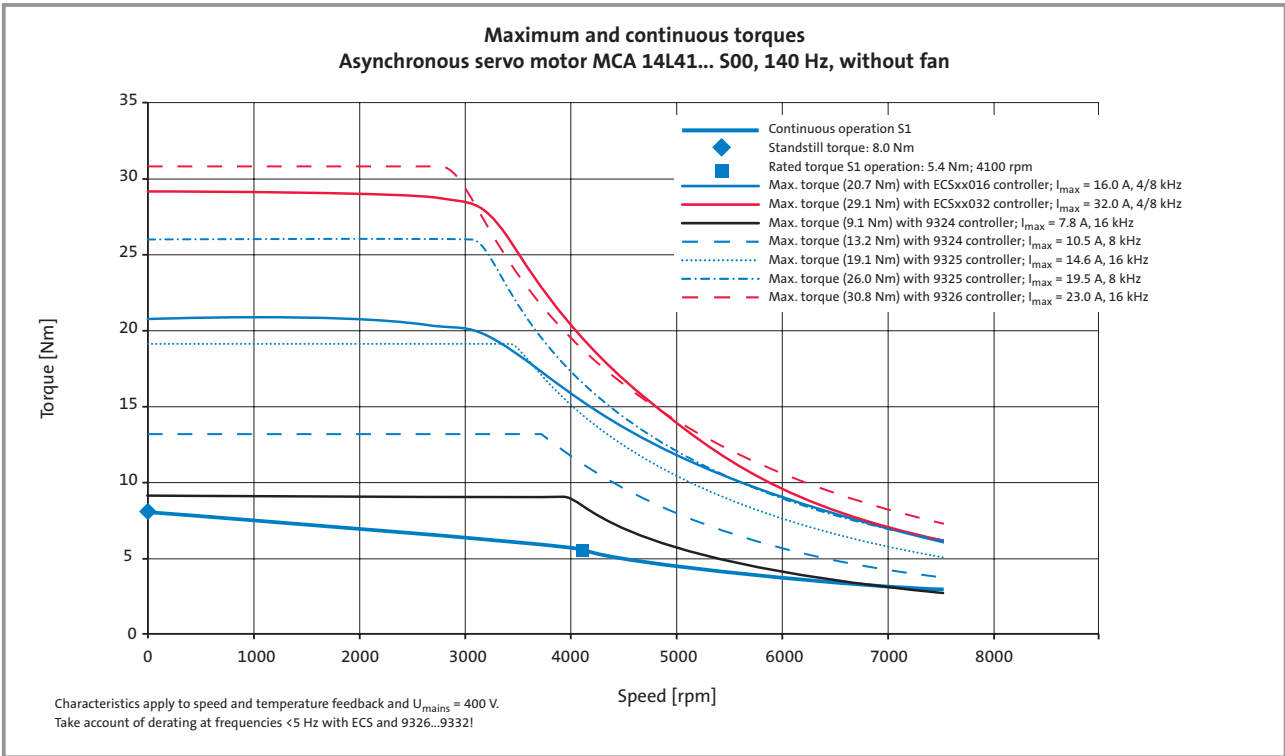
and S6 illustrate the permissible operating times against the torque peaks required.



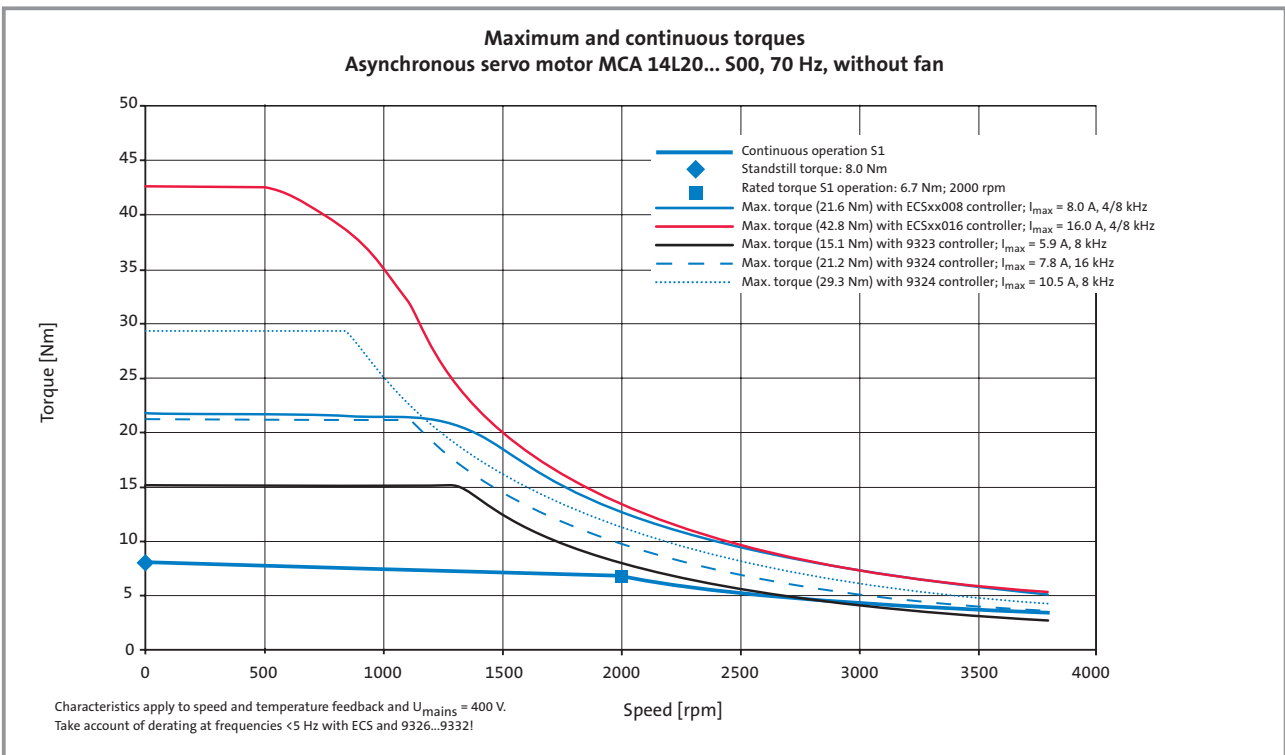


### Torque characteristics

#### MCA 14L41...S00



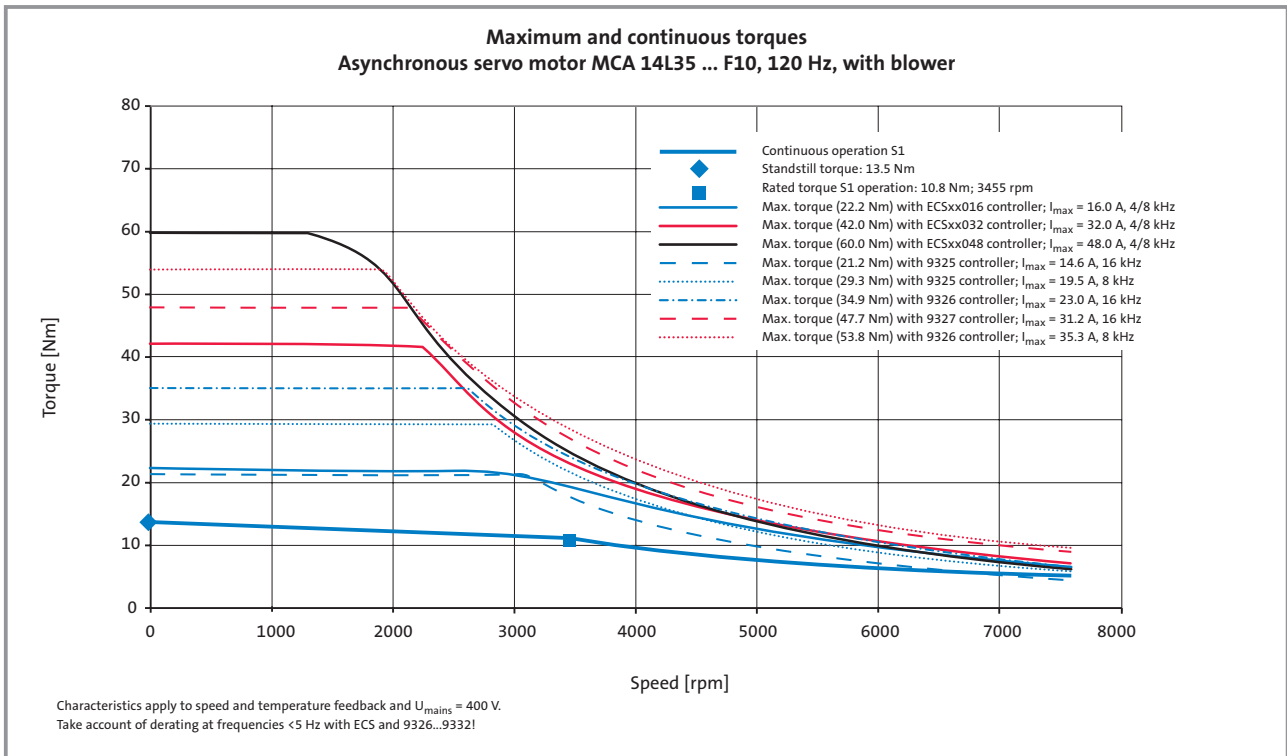
#### MCA 14L20...S00



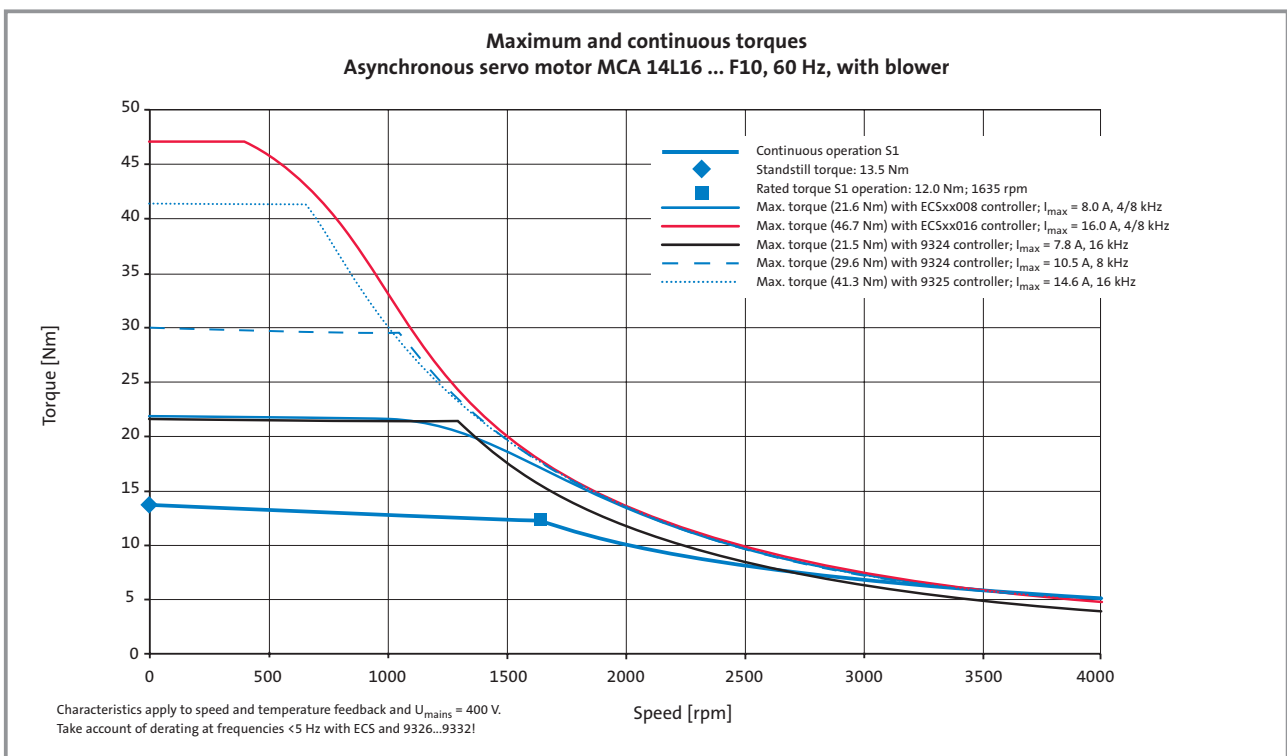


### Torque characteristics

#### MCA 14L35...F10



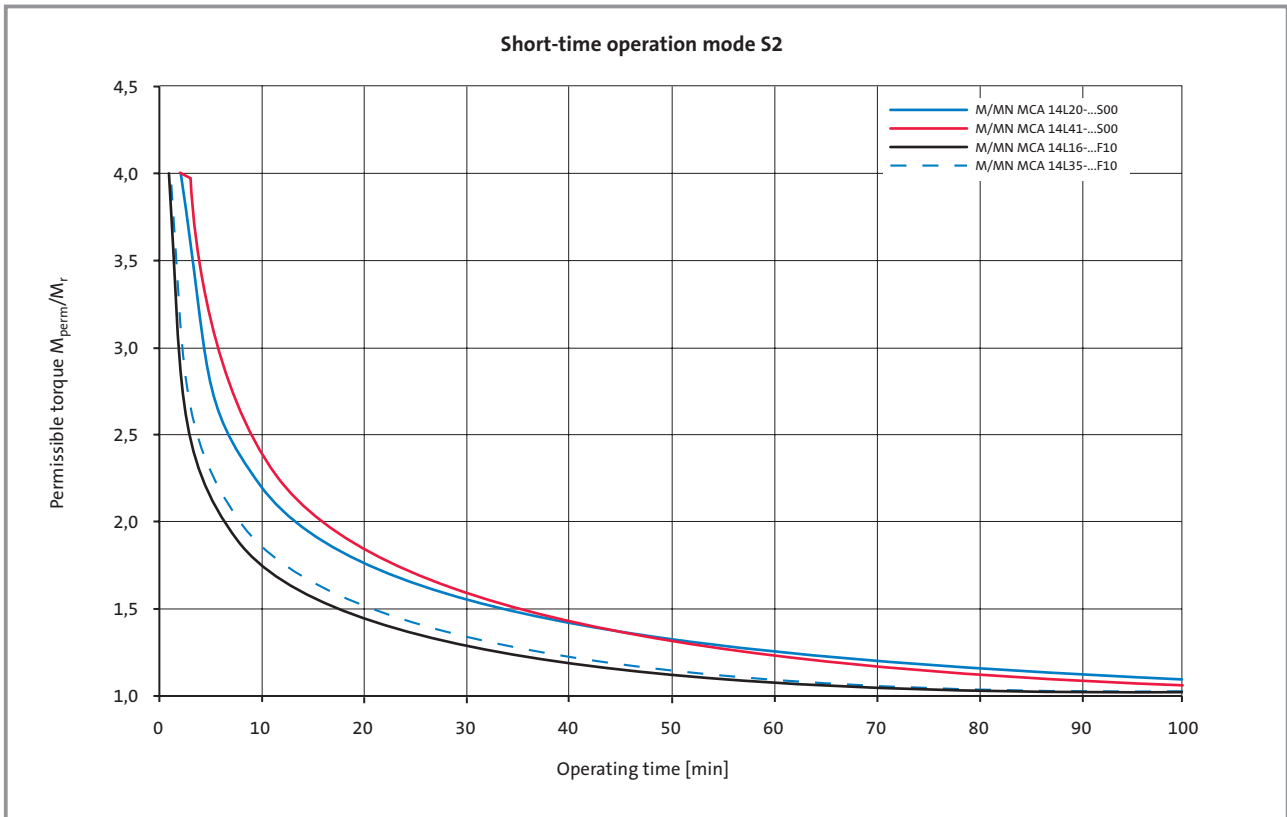
#### MCA 14L16...F10

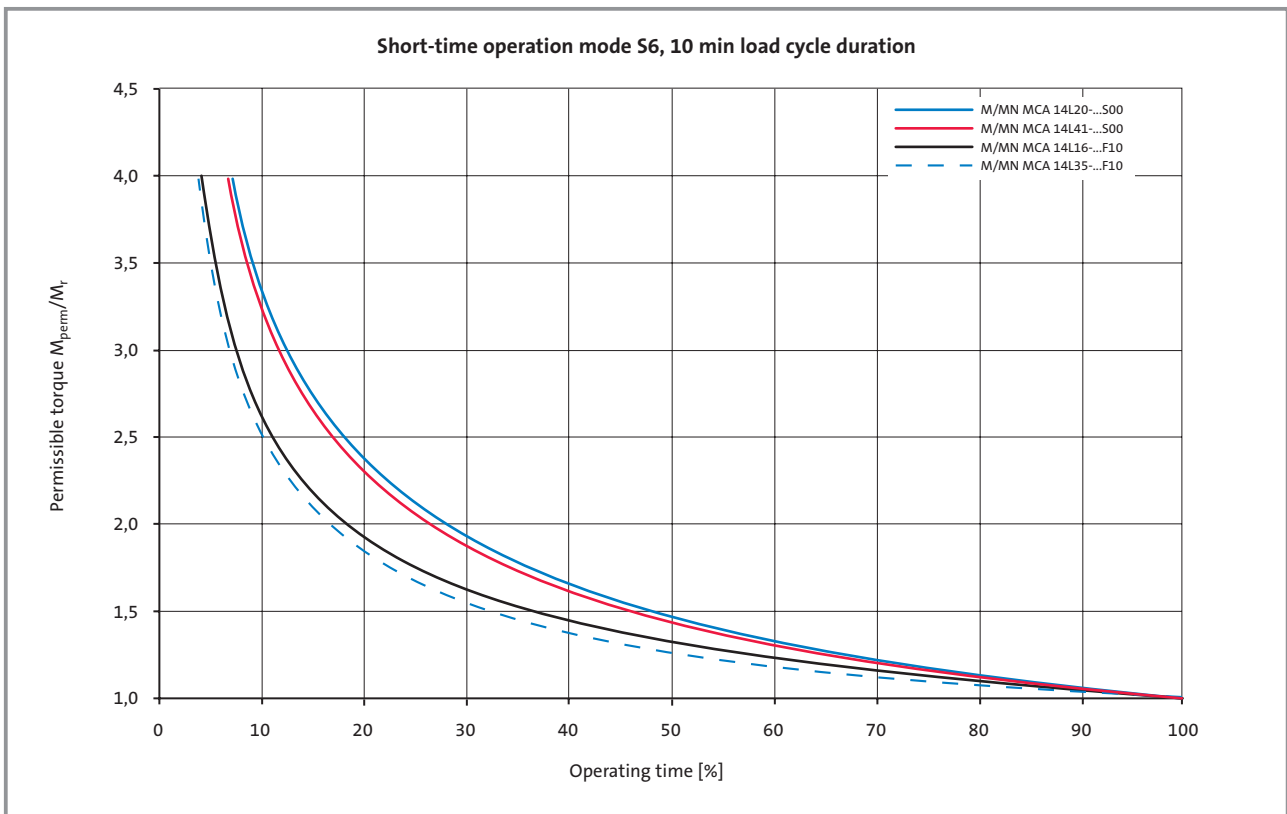
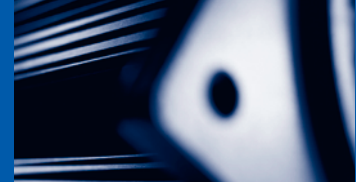


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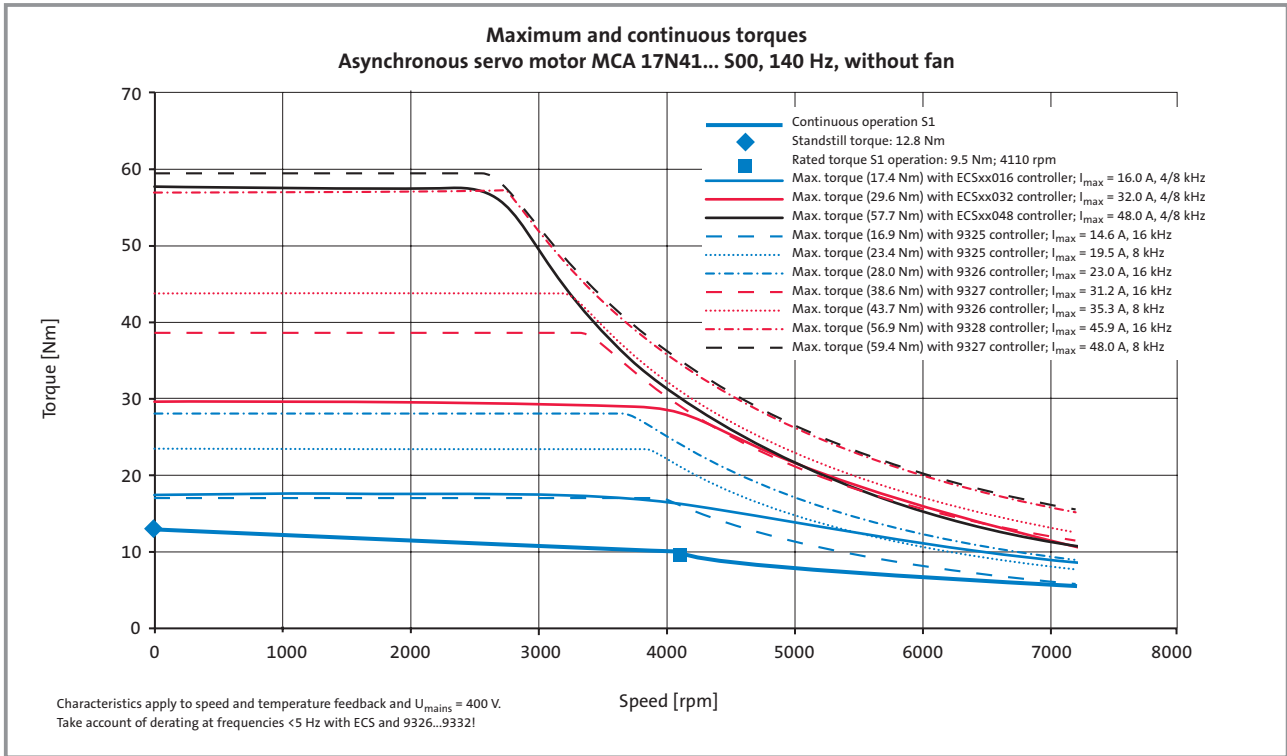
and S6 illustrate the permissible operating times against the torque peaks required.



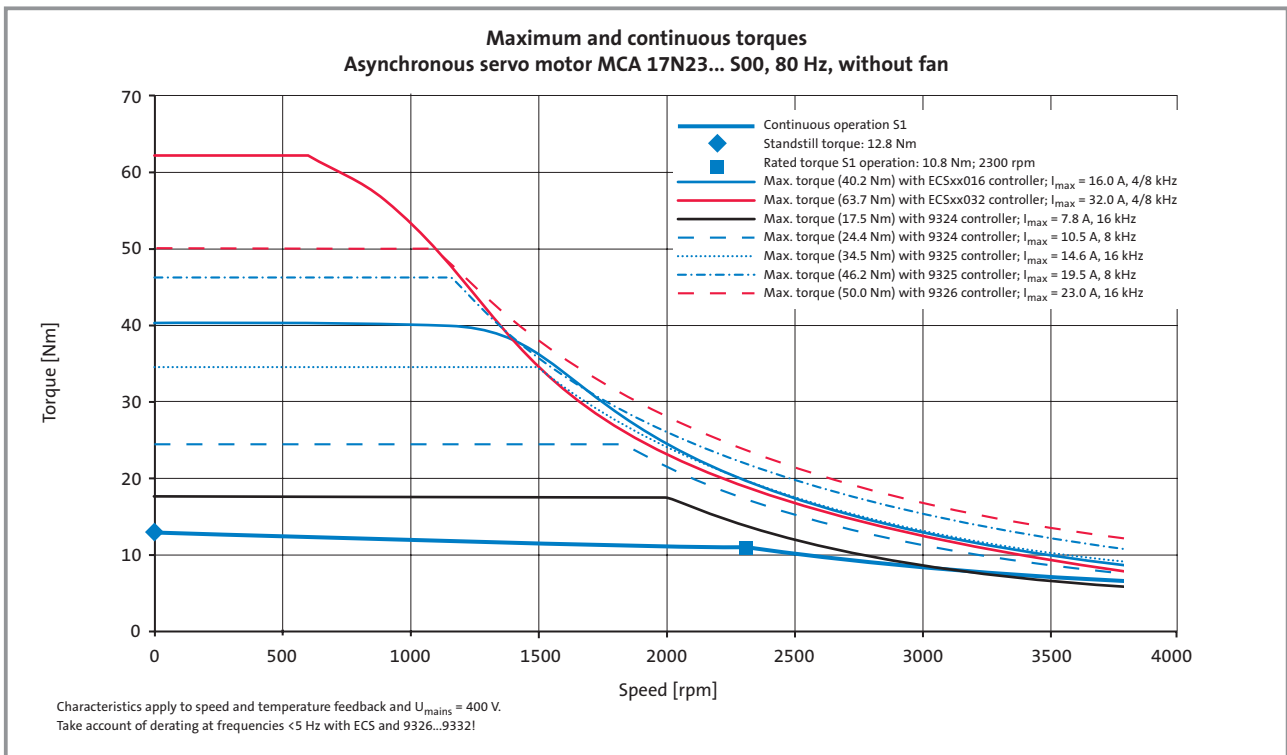


### Torque characteristics

#### MCA 17N41...S00



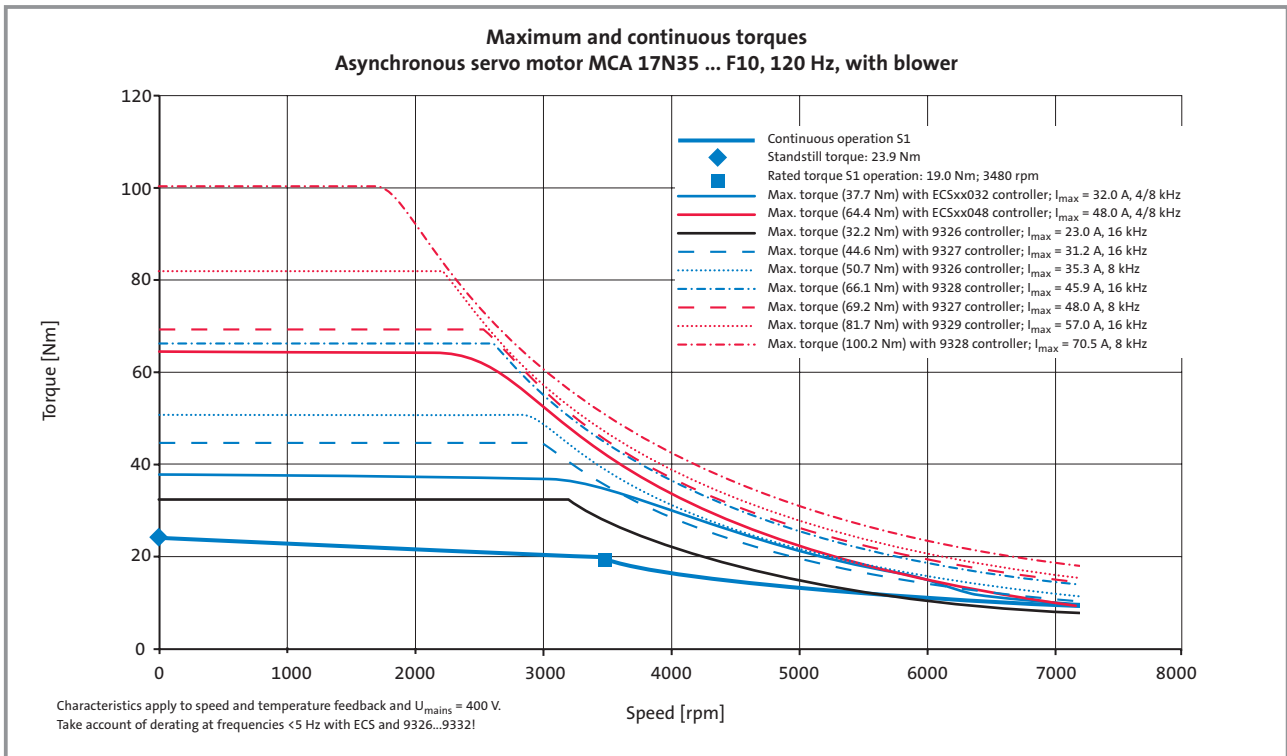
#### MCA 17N23...S00



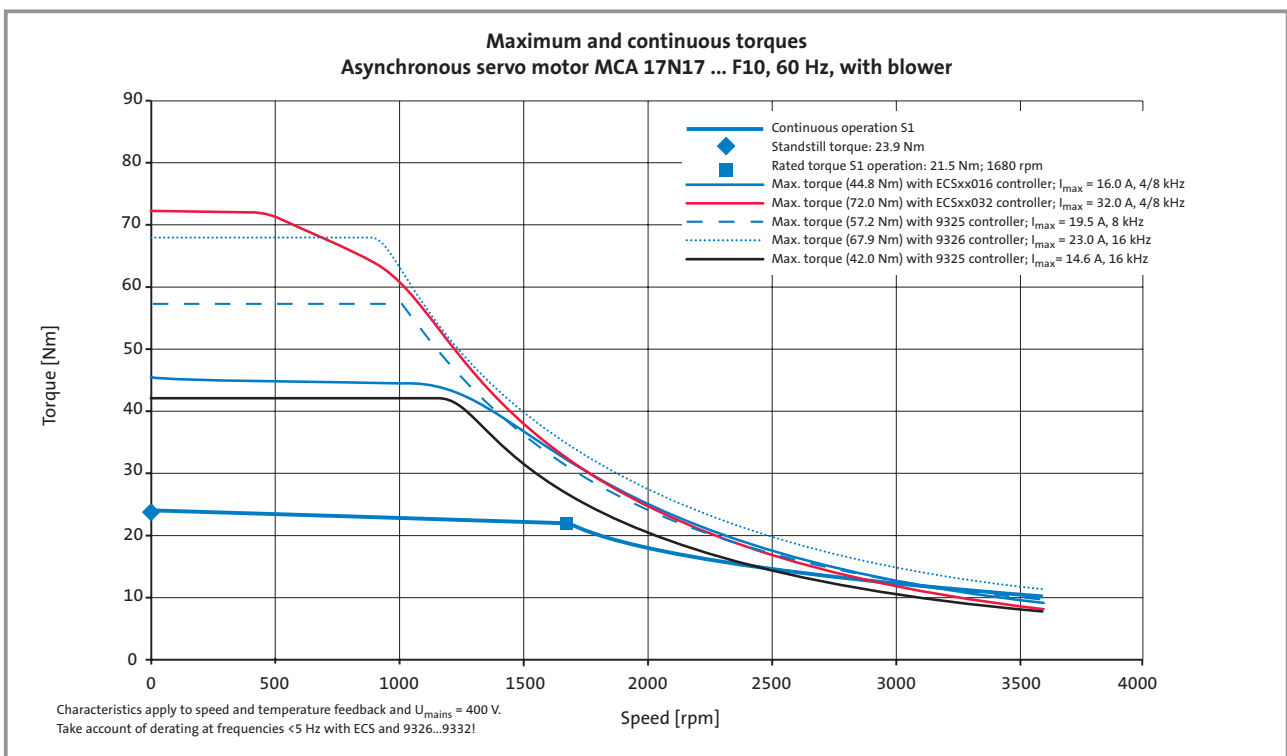


### Torque characteristics

#### MCA 17N35...F10



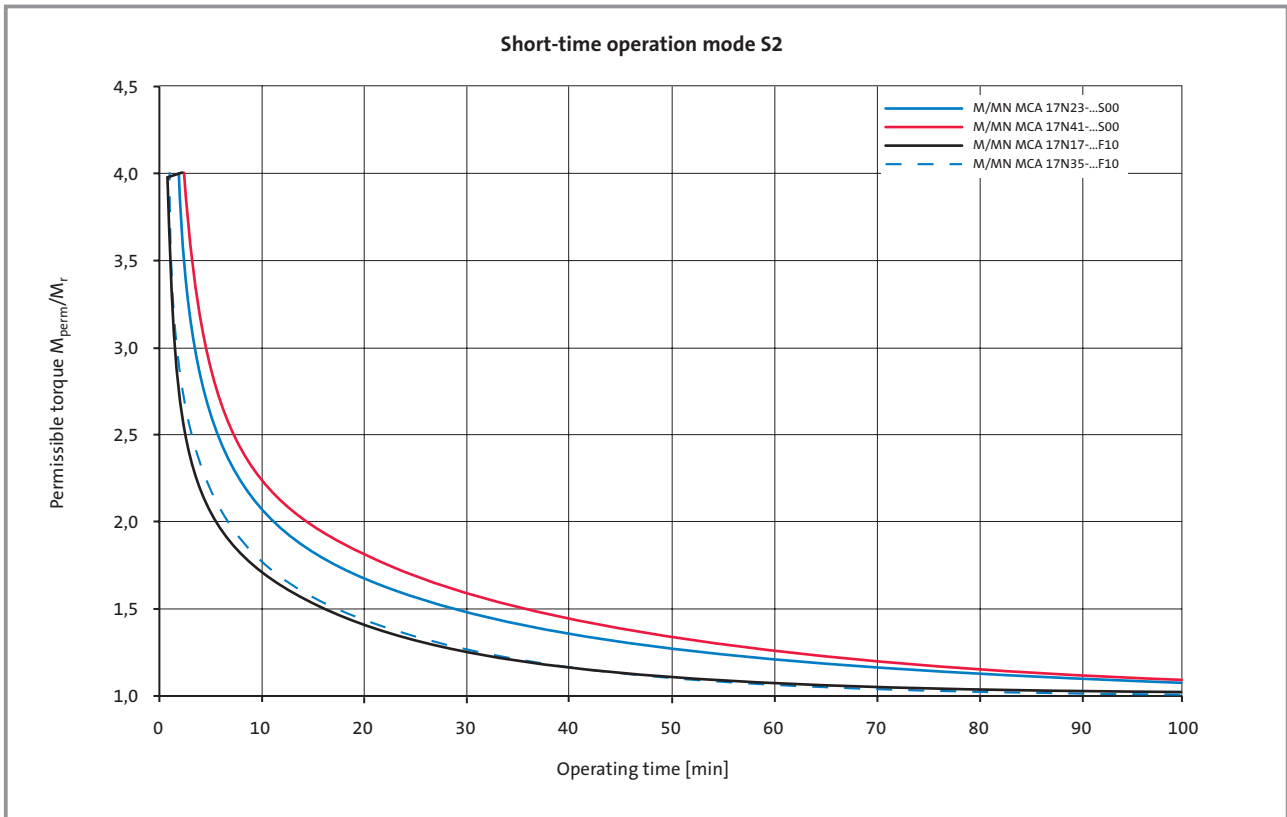
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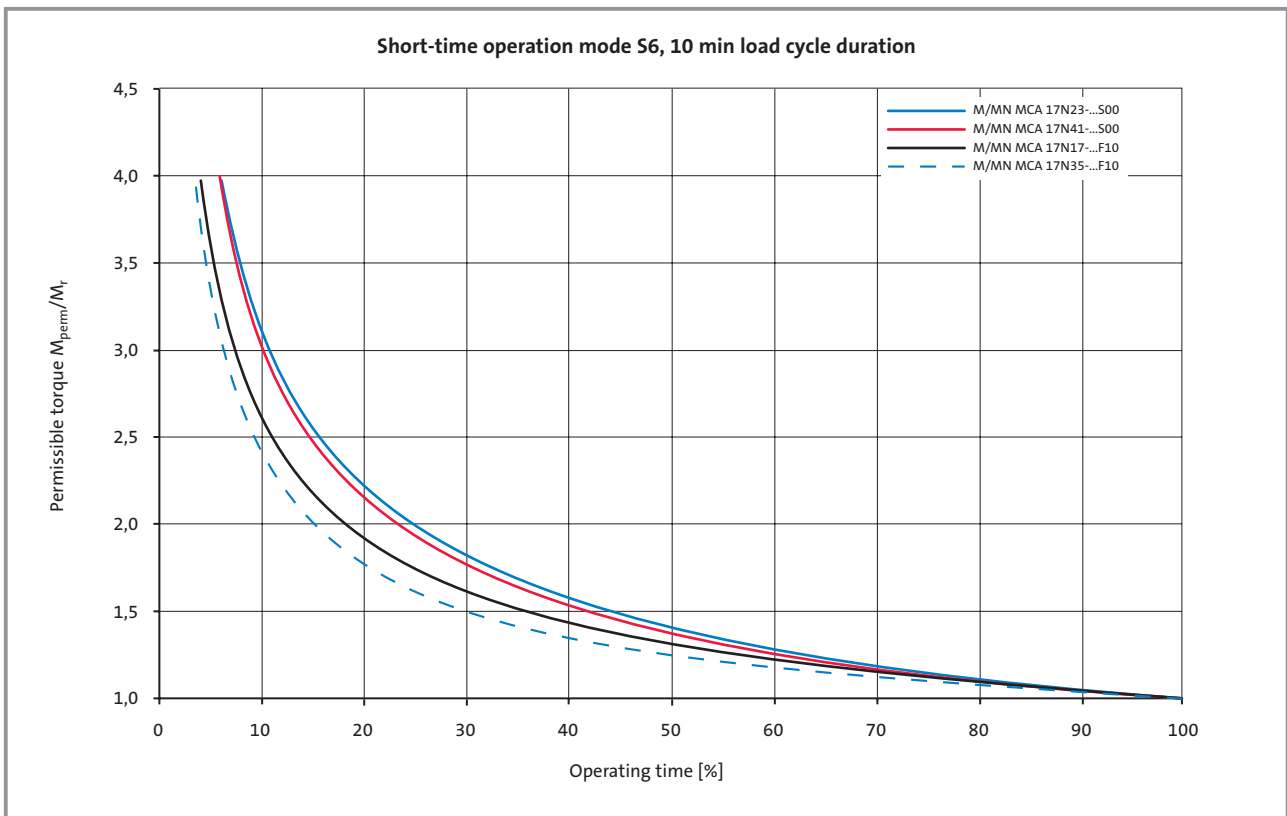
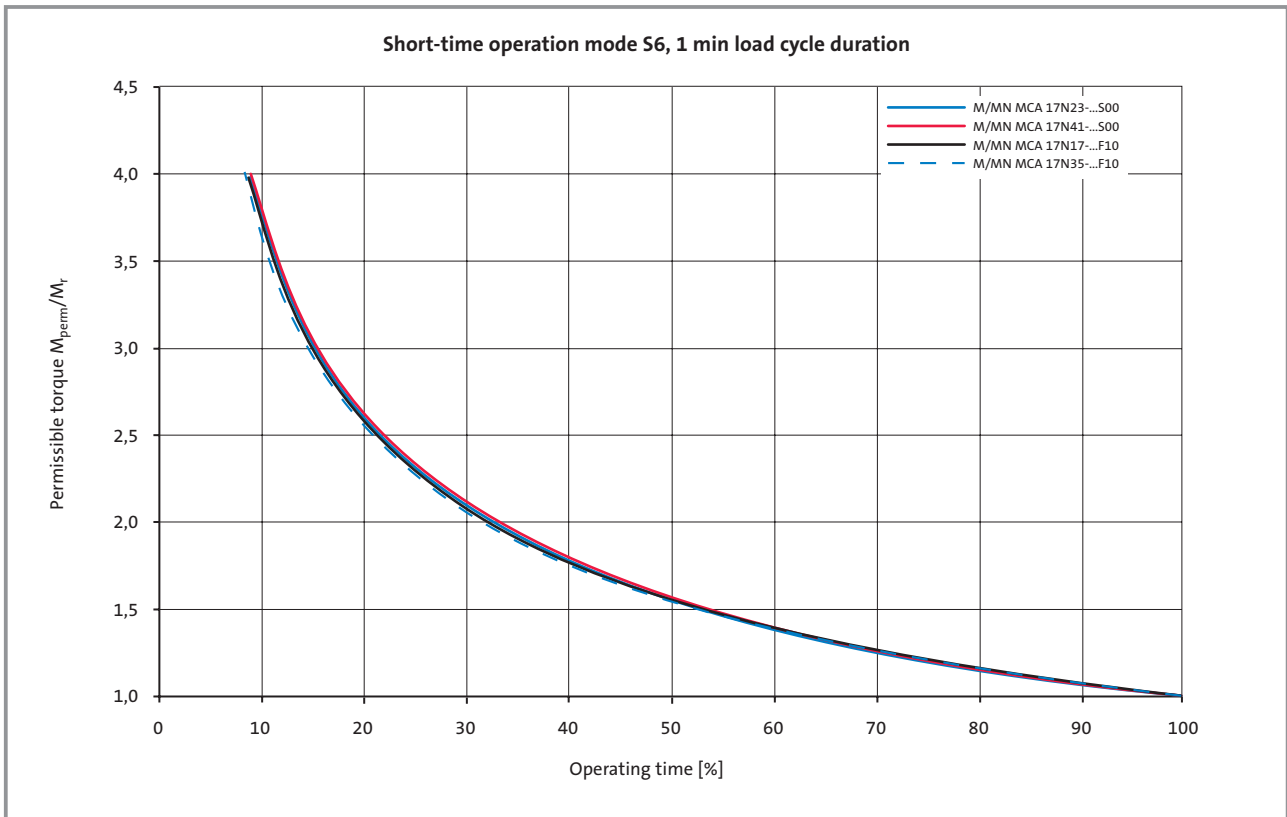


### Short-time operation characteristic

Lenze MCA servo motors have high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating modes S2

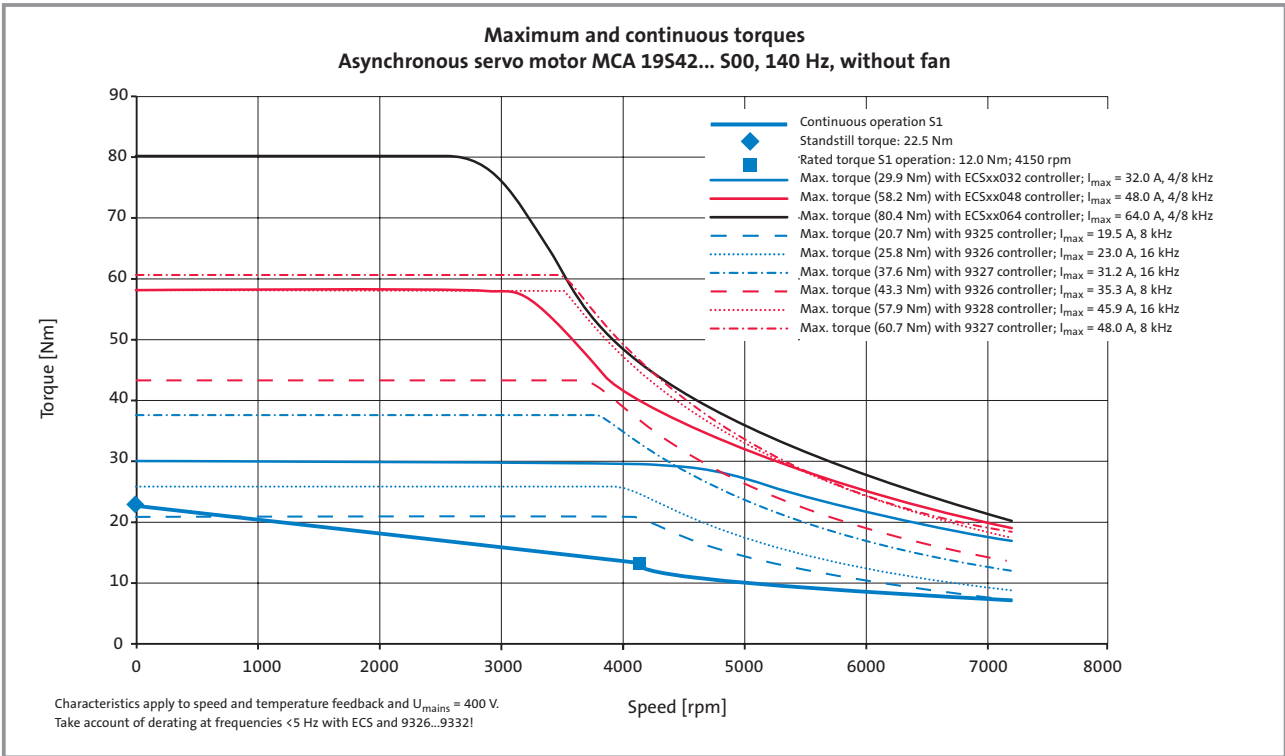
and S6 illustrate the permissible operating times against the torque peaks required.



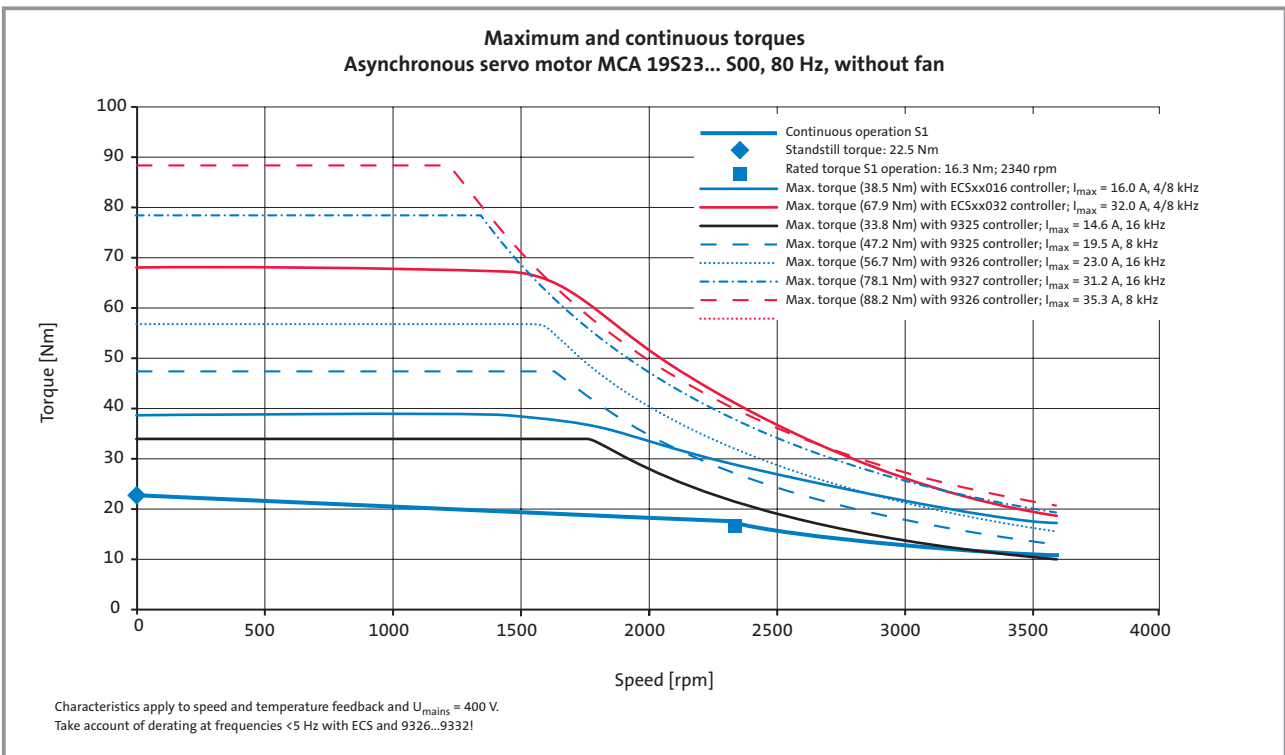


### Torque characteristics

#### MCA 19S42...S00



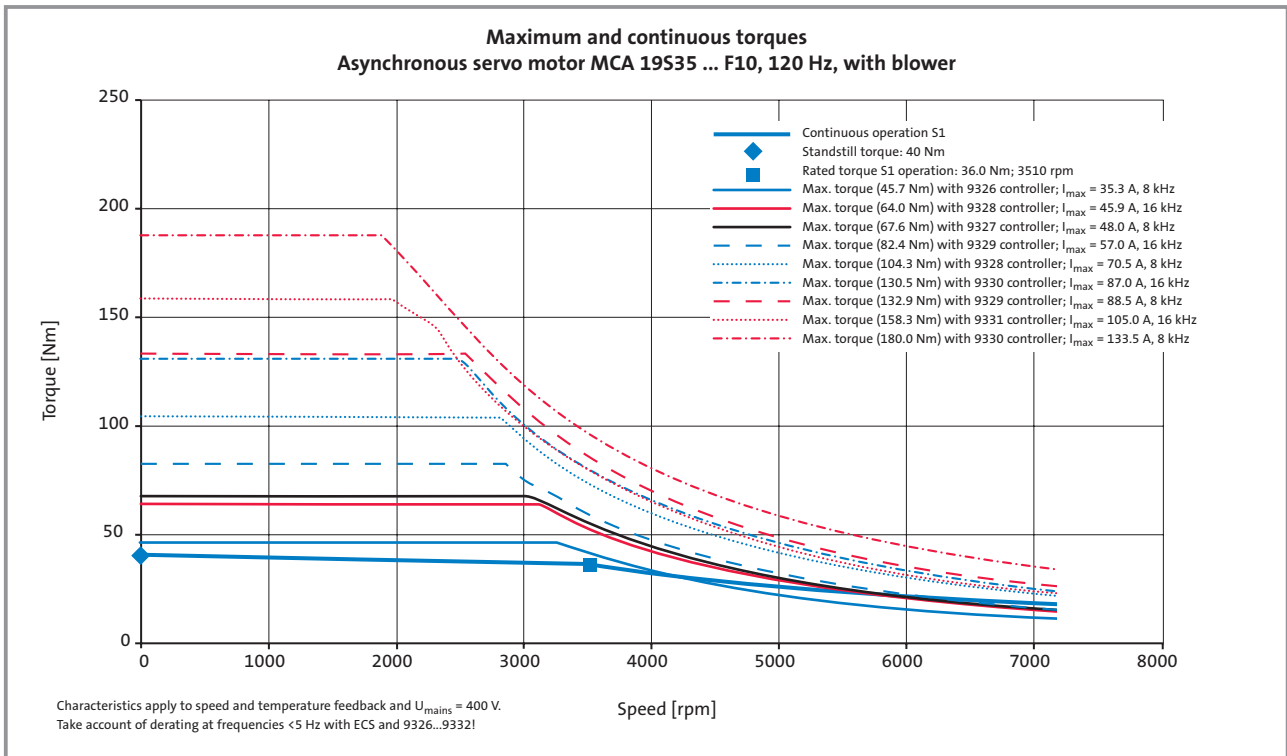
#### MCA 19S40...S00



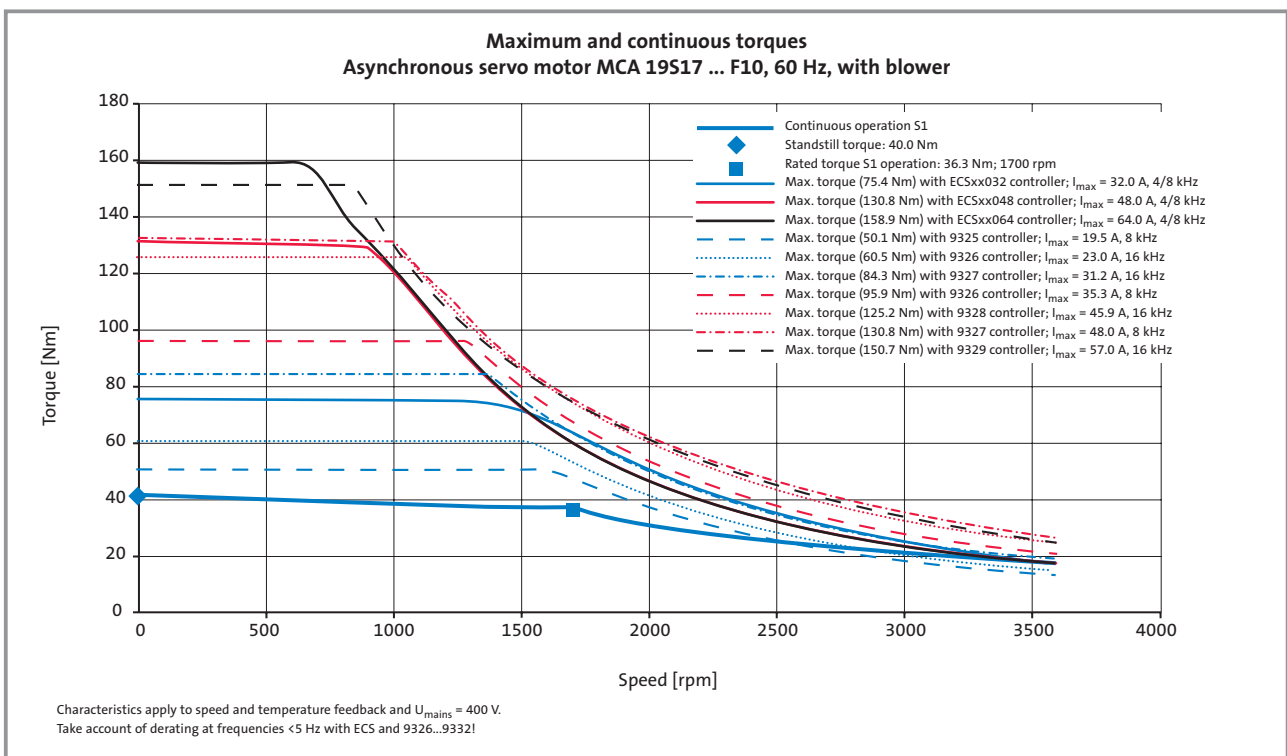


### Torque characteristics

#### MCA 19S35...F10



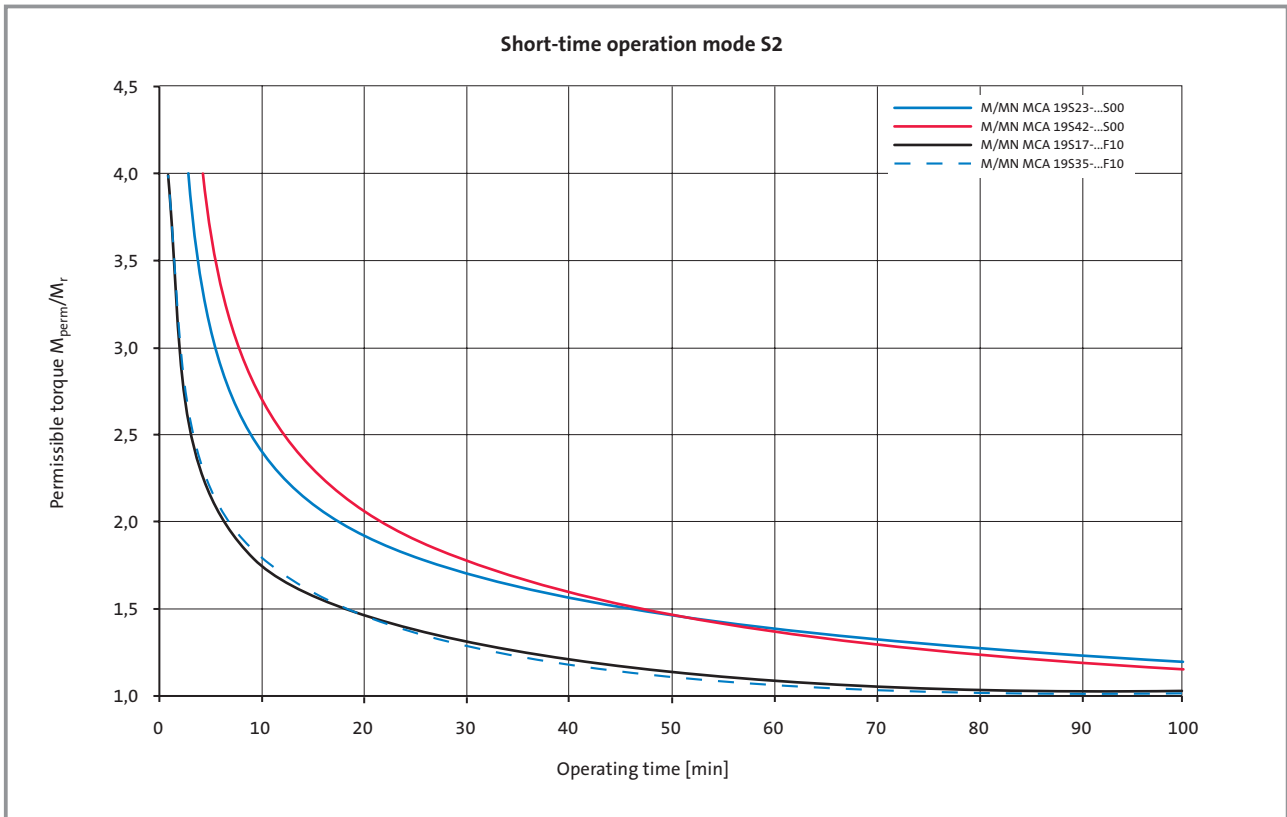
#### MCA 19S17...F10

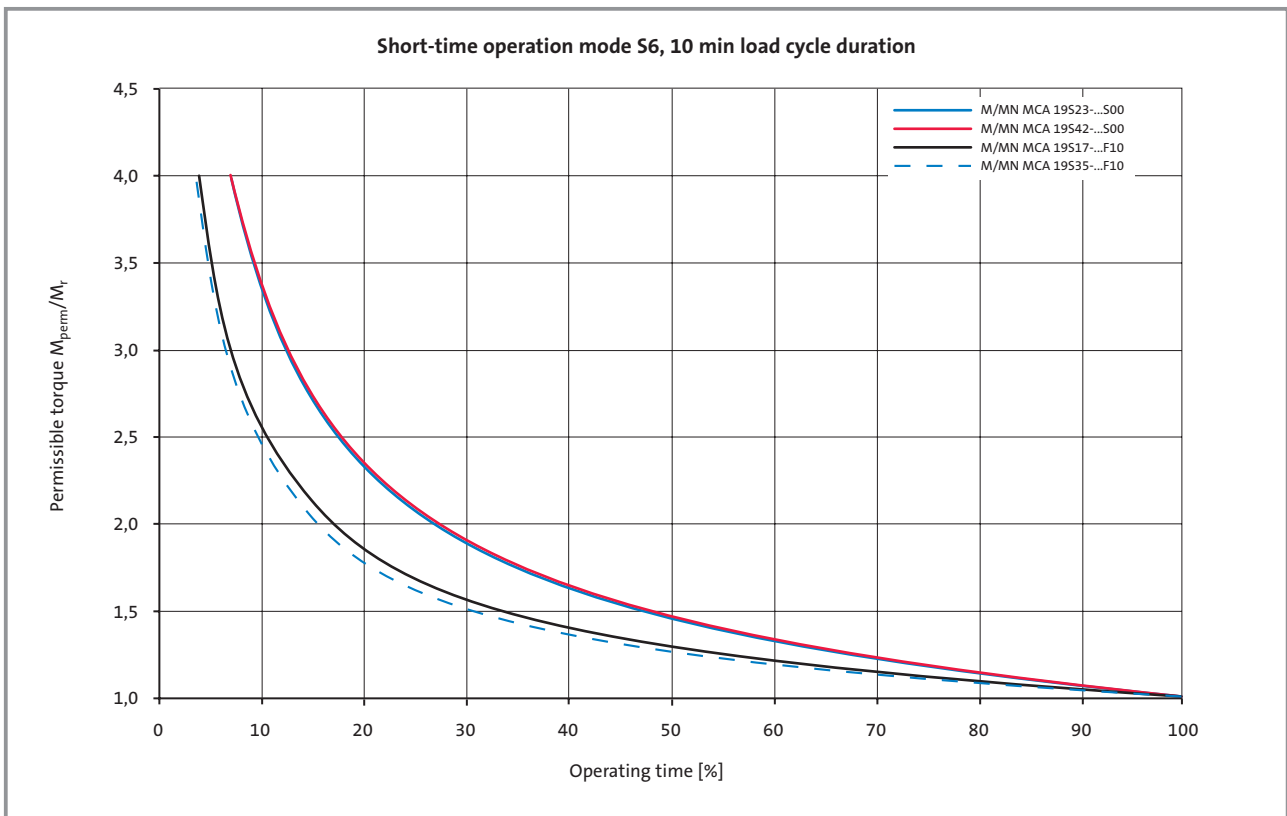
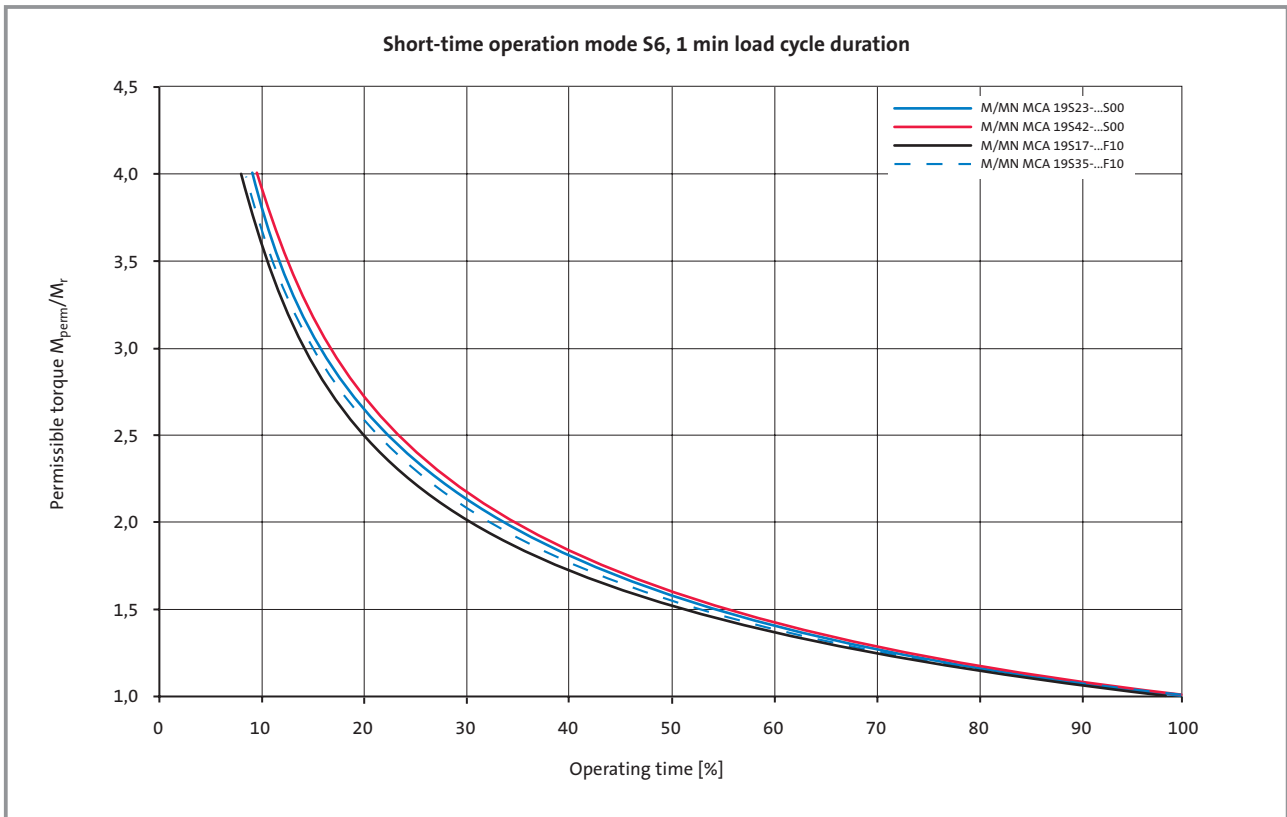


### Short-time operation characteristic

Lenze MCA servo motors have high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating modes S2

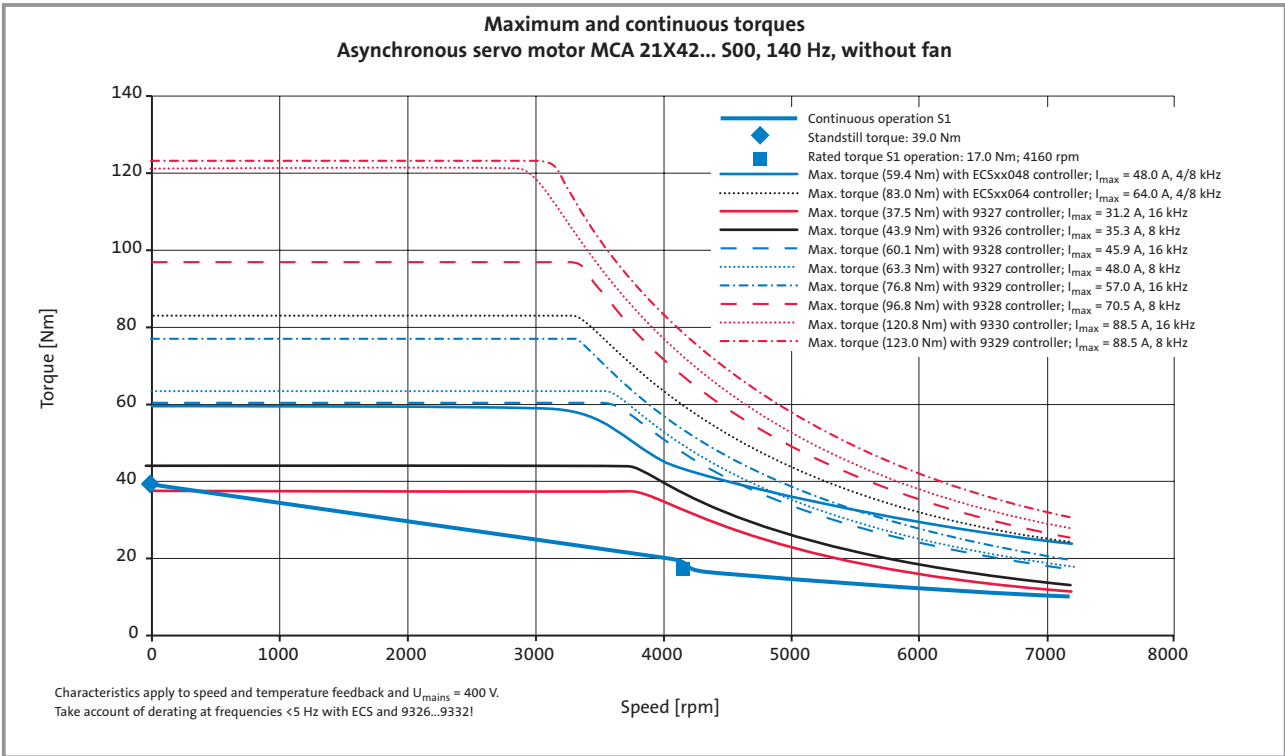
and S6 illustrate the permissible operating times against the torque peaks required.



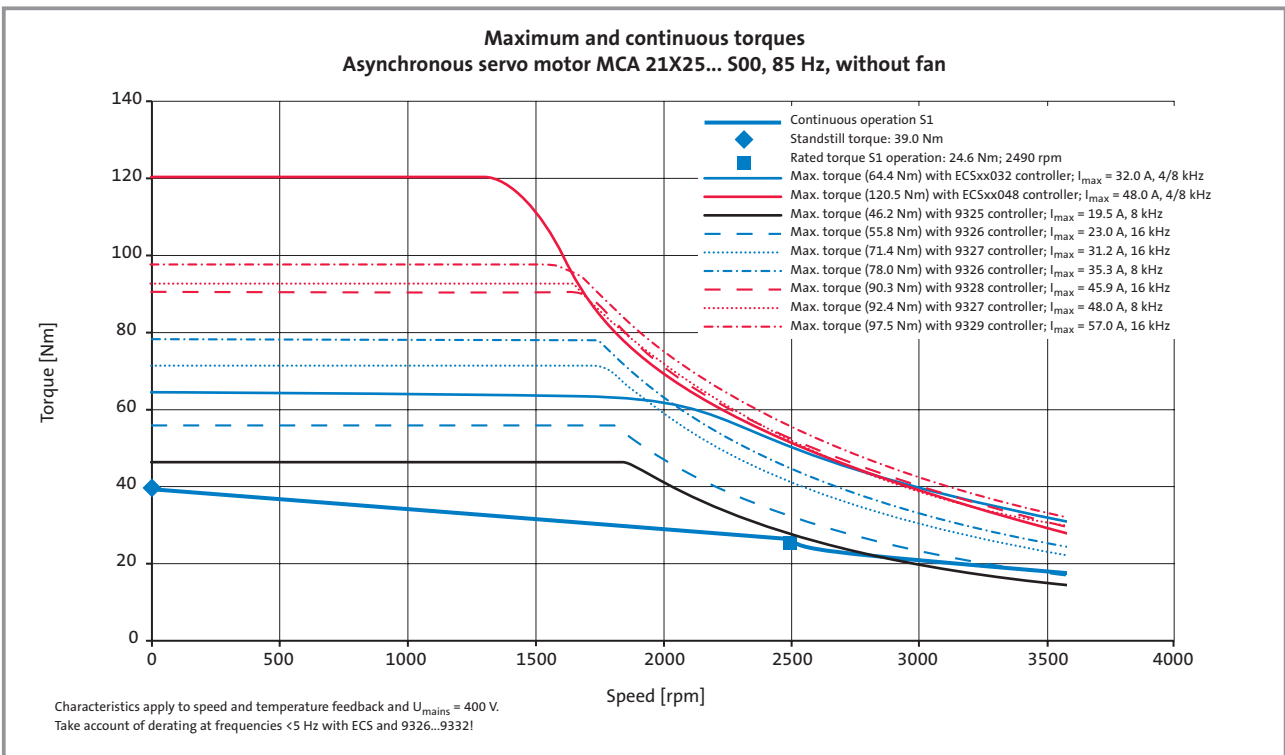


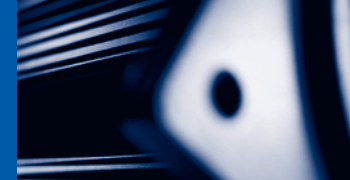
### Torque characteristics

#### MCA 21X42...S00



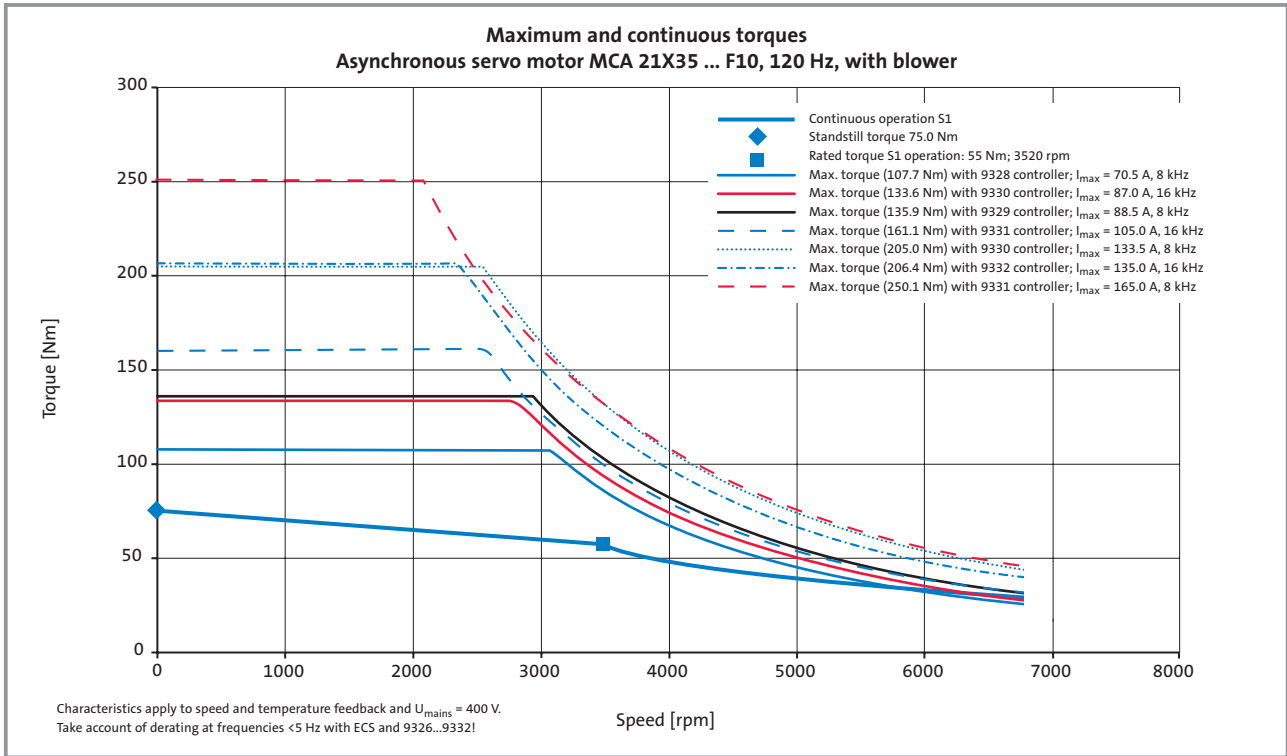
#### MCA 21X25...S00



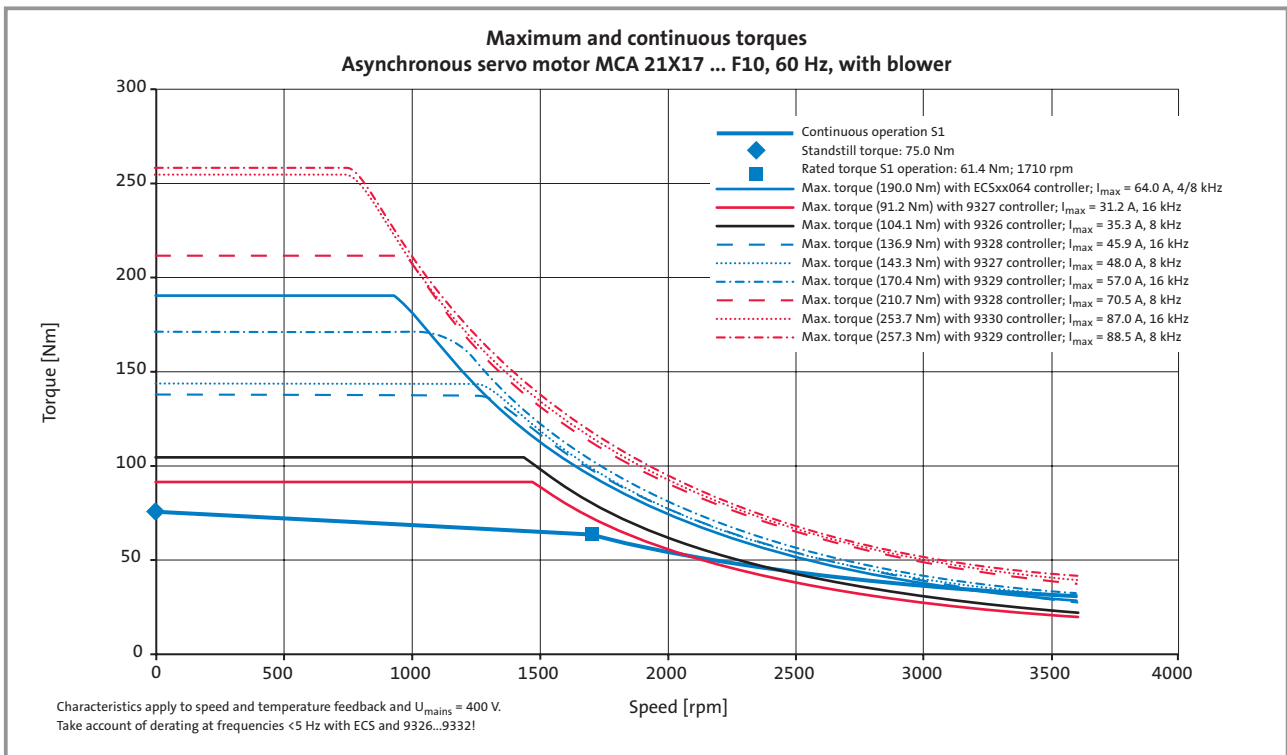


### Torque characteristics

#### MCA 21X35...F10



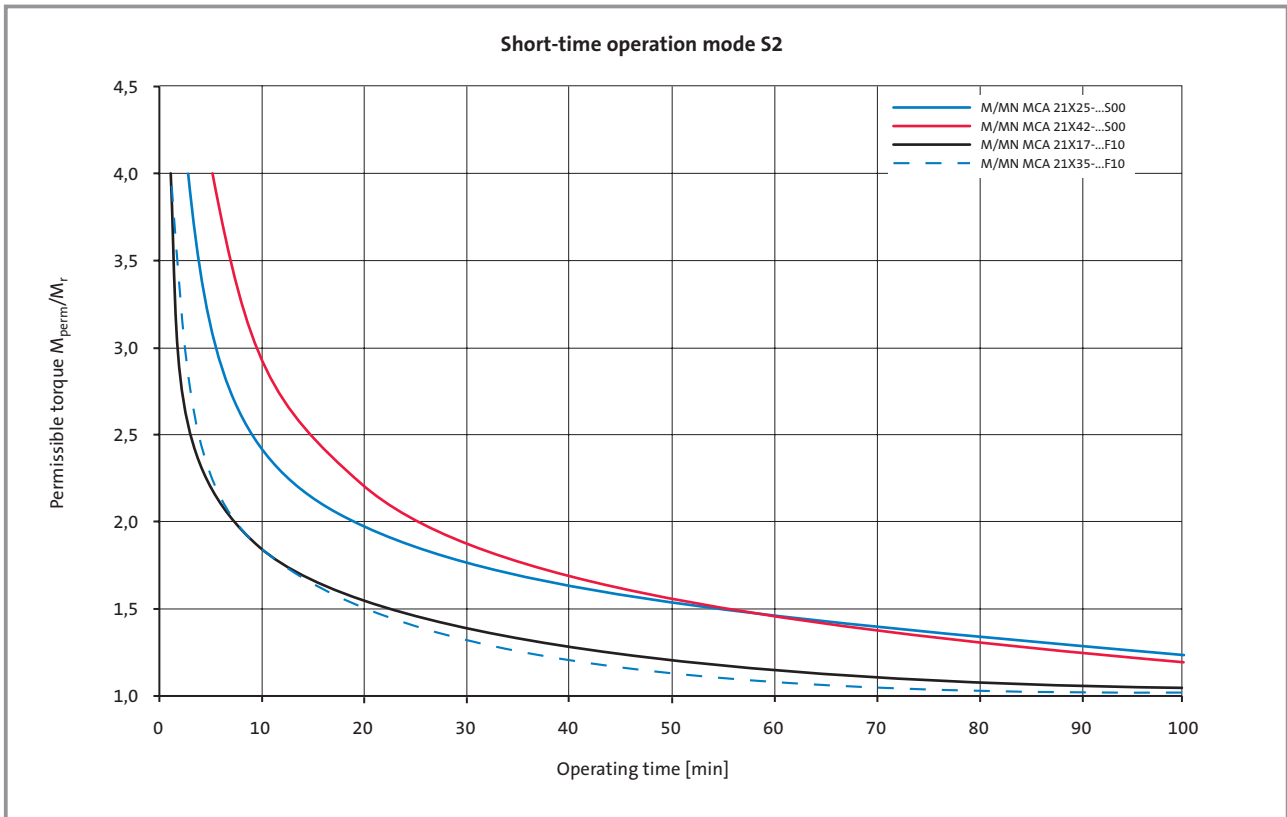
#### MCA 21X17...F10

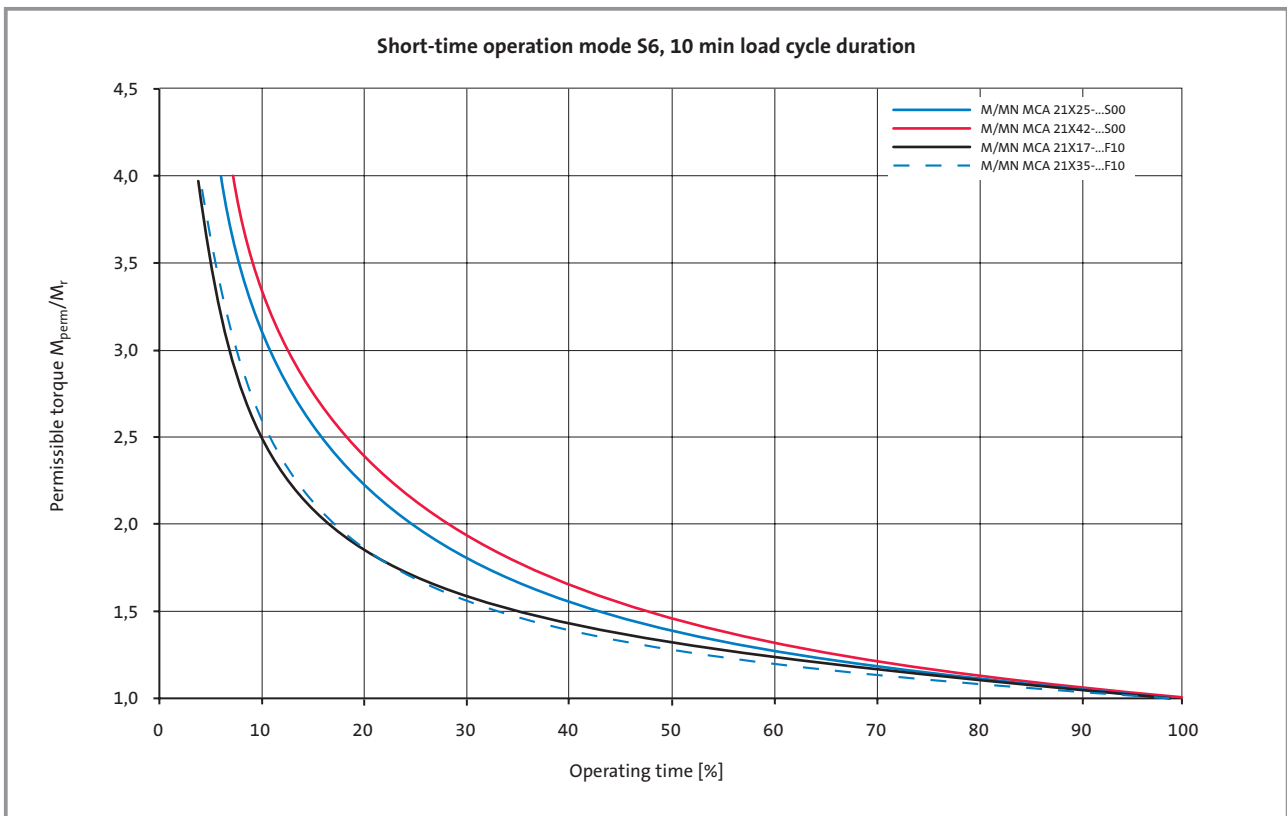
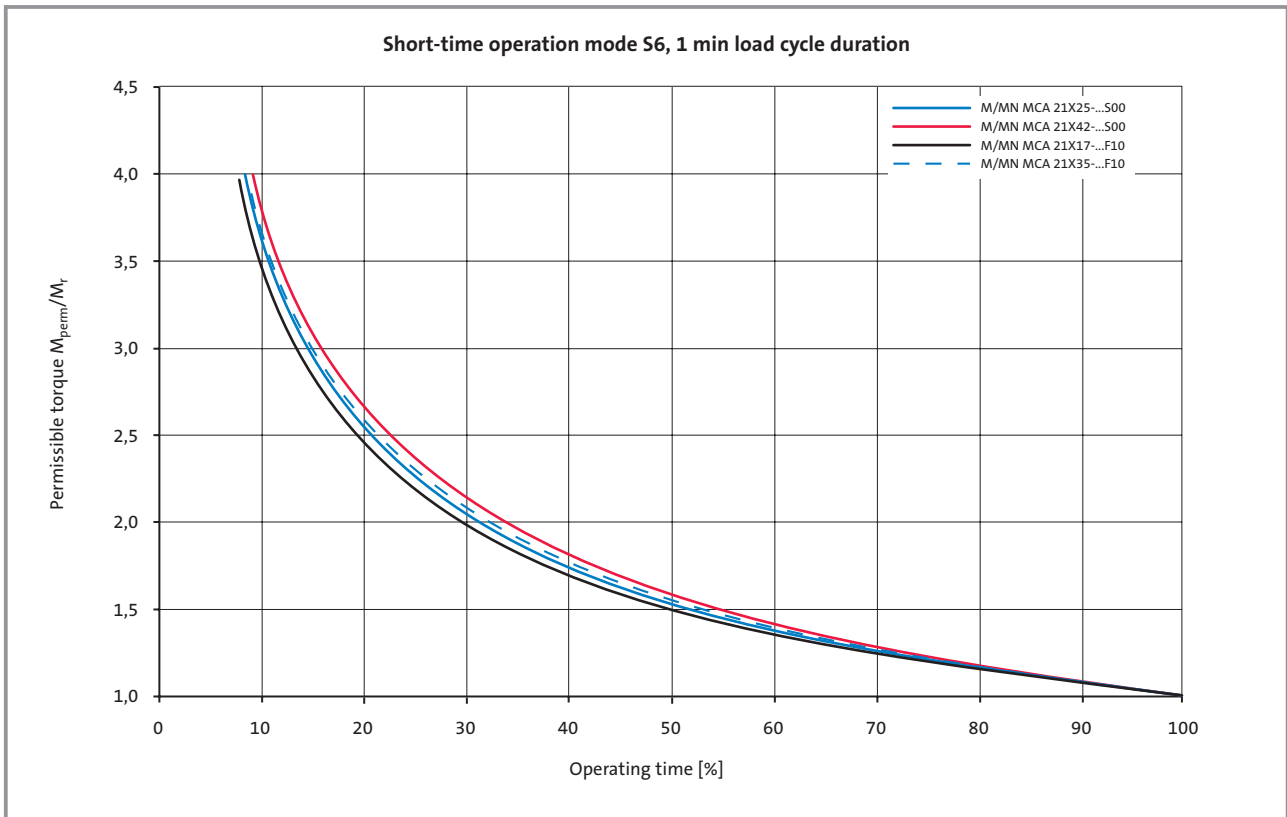


### Short-time operation characteristic

Lenze MCA servo motors have high torque peaks. In order to make full use of this highly dynamic response as simply as possible, the following diagrams for operating modes S2

and S6 illustrate the permissible operating times against the torque peaks required.





# Servomotori asincroni MDFQA

Curve di coppia

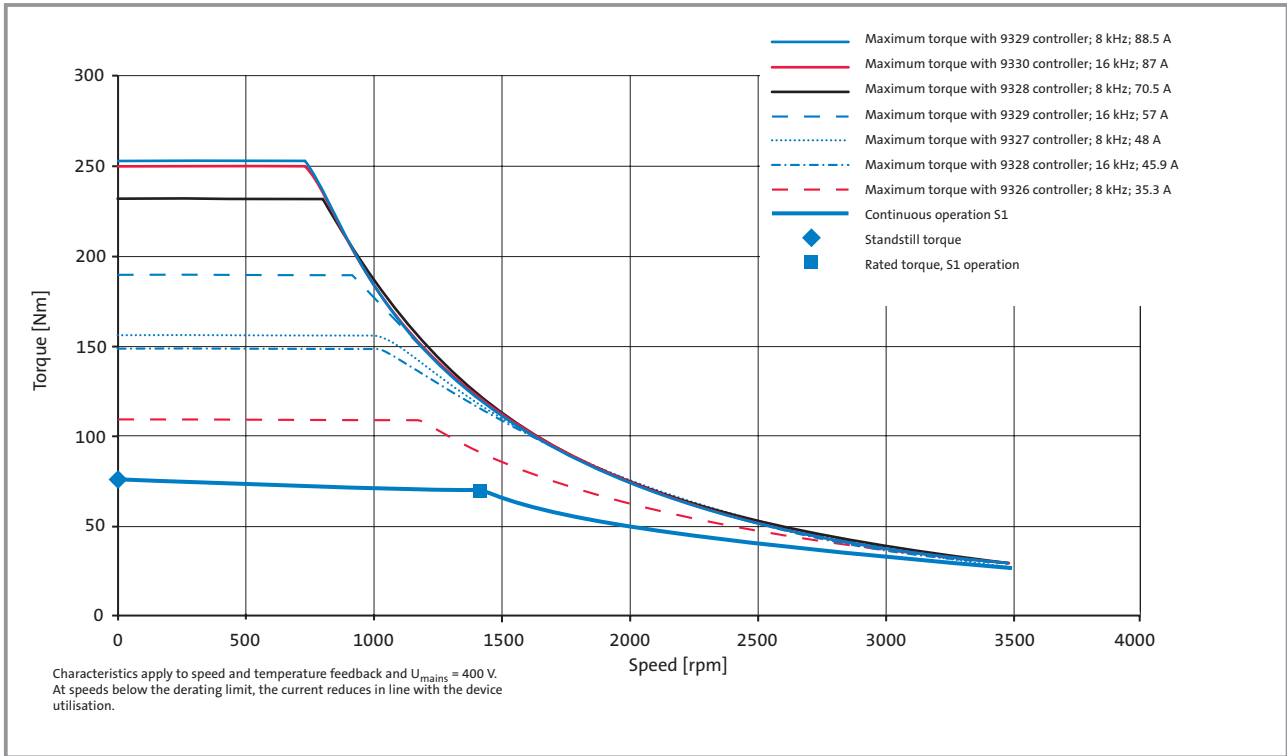


# Technical data

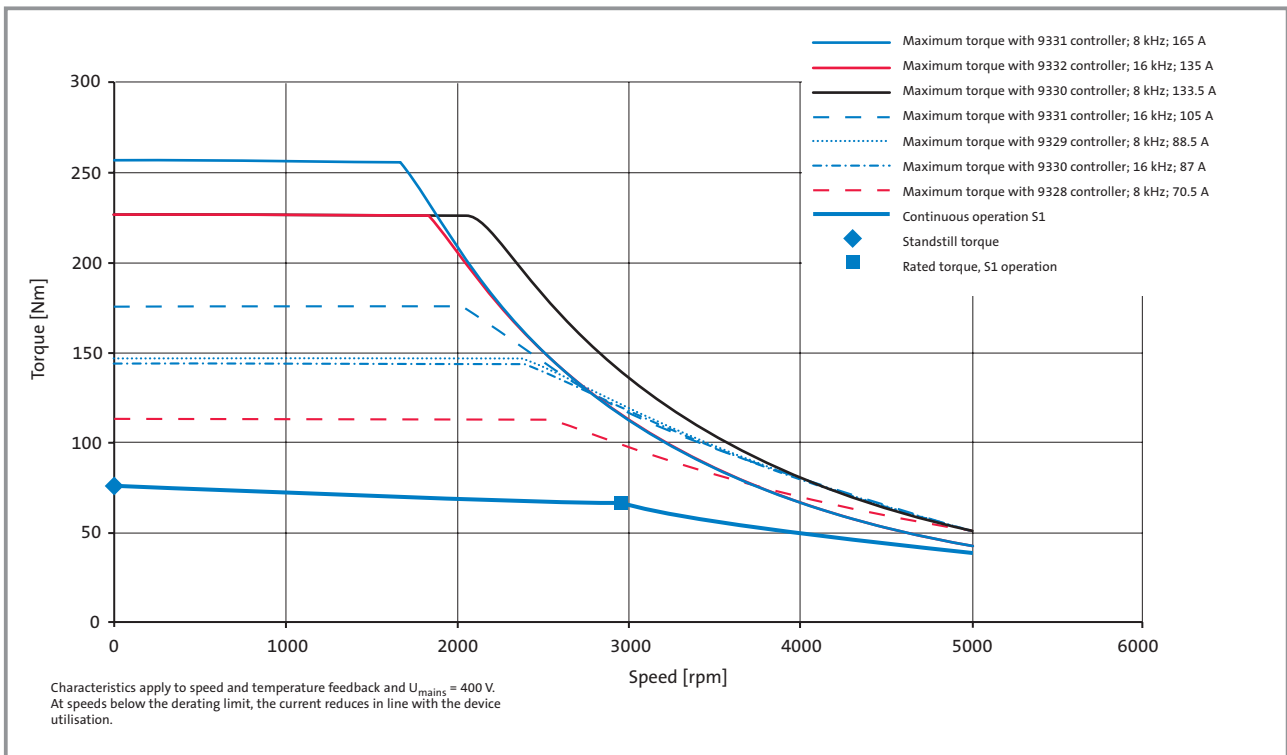
## MDFQA 100/112 asynchronous servo motors

### Torque characteristics

#### MDFQA 100-22, 50, Star connection with blower



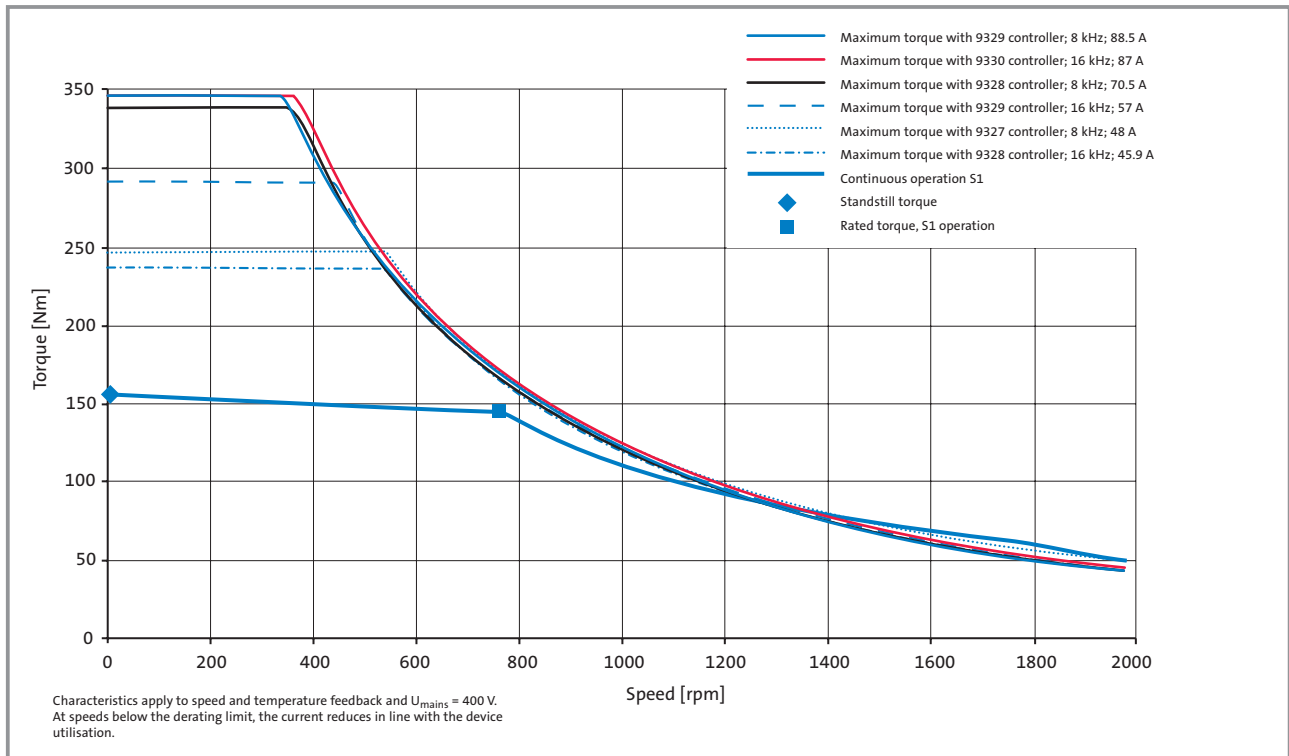
#### MDFQA 100-22, 100, Star connection with blower



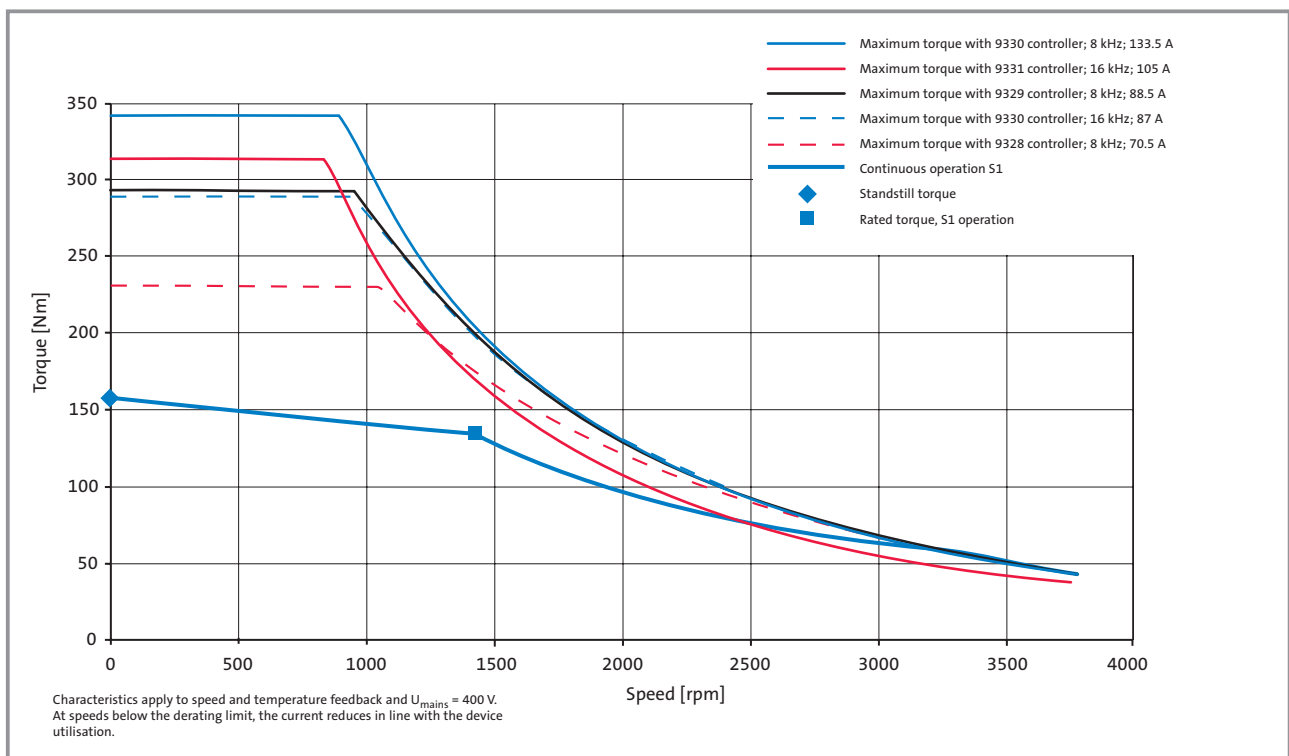


### Torque characteristics

#### MDFQA 112-22, 50, Star connection with blower



#### MDFQA 112-22, 50, Delta connection with blower

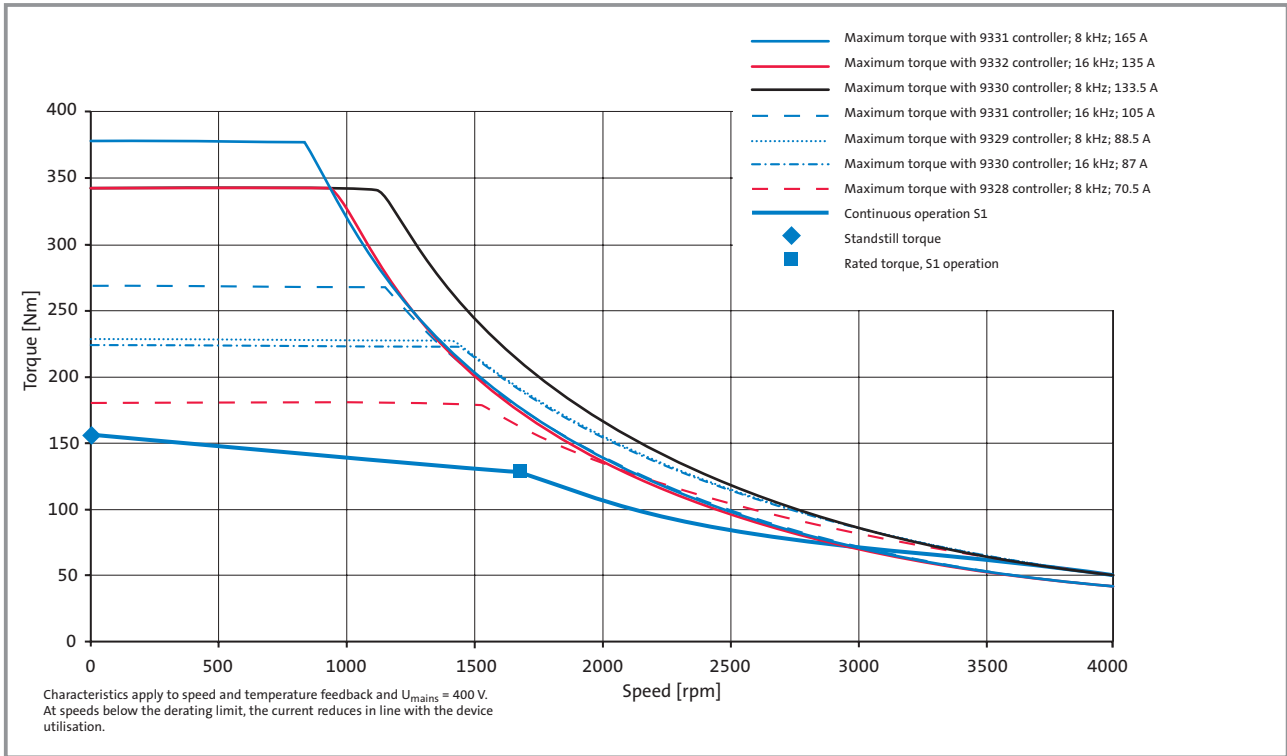


# Technical data

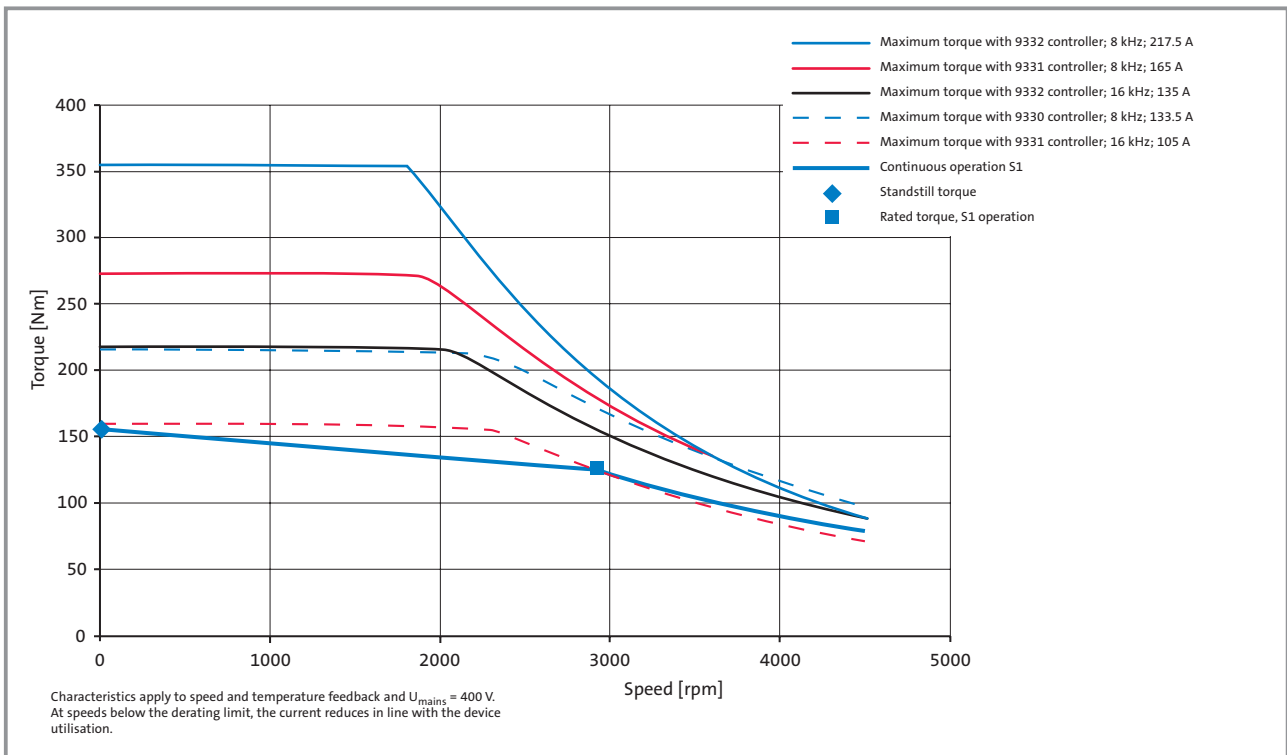
## MDFQA 100/112 asynchronous servo motors

### Torque characteristics

#### MDFQA 112-22, 100, Star connection with blower



#### MDFQA 112-22, 100, Delta connection with blower

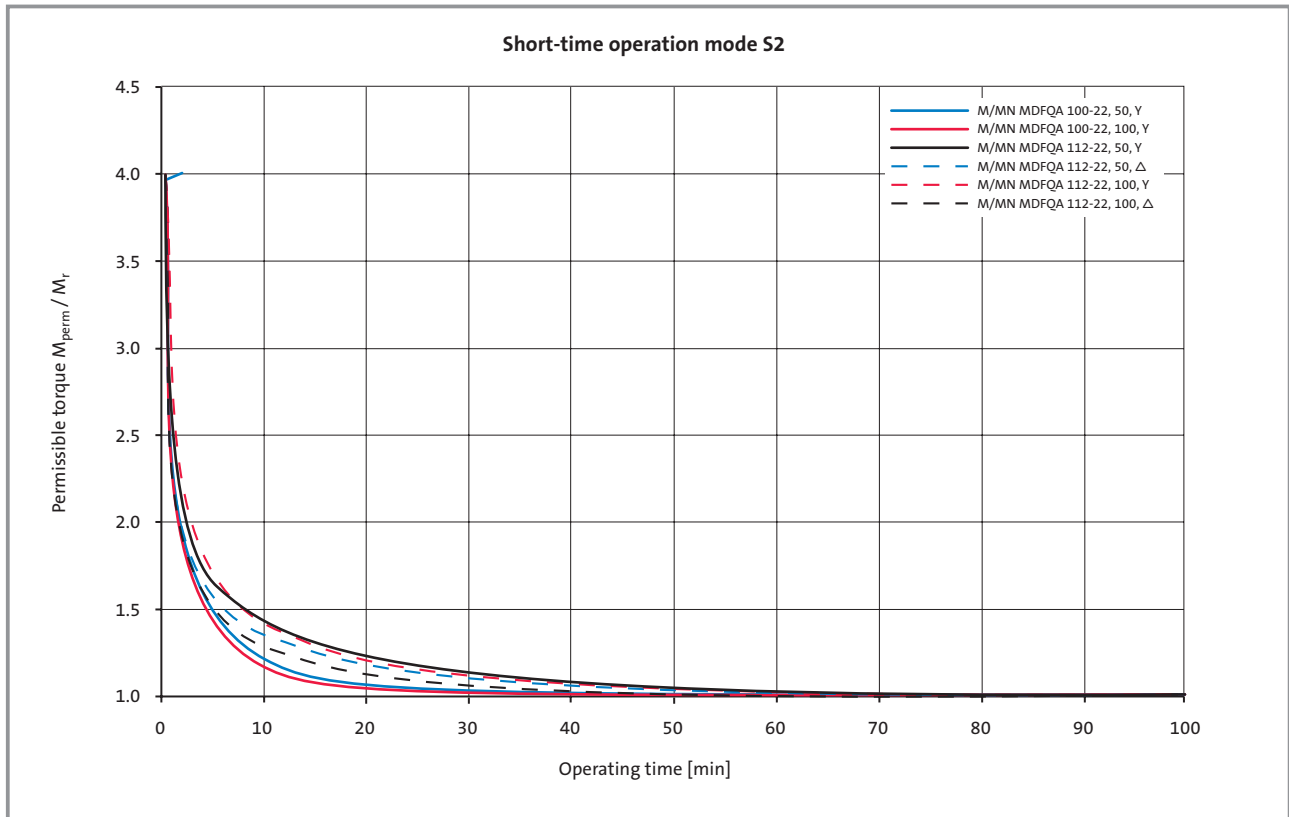




### Short-time operation characteristic

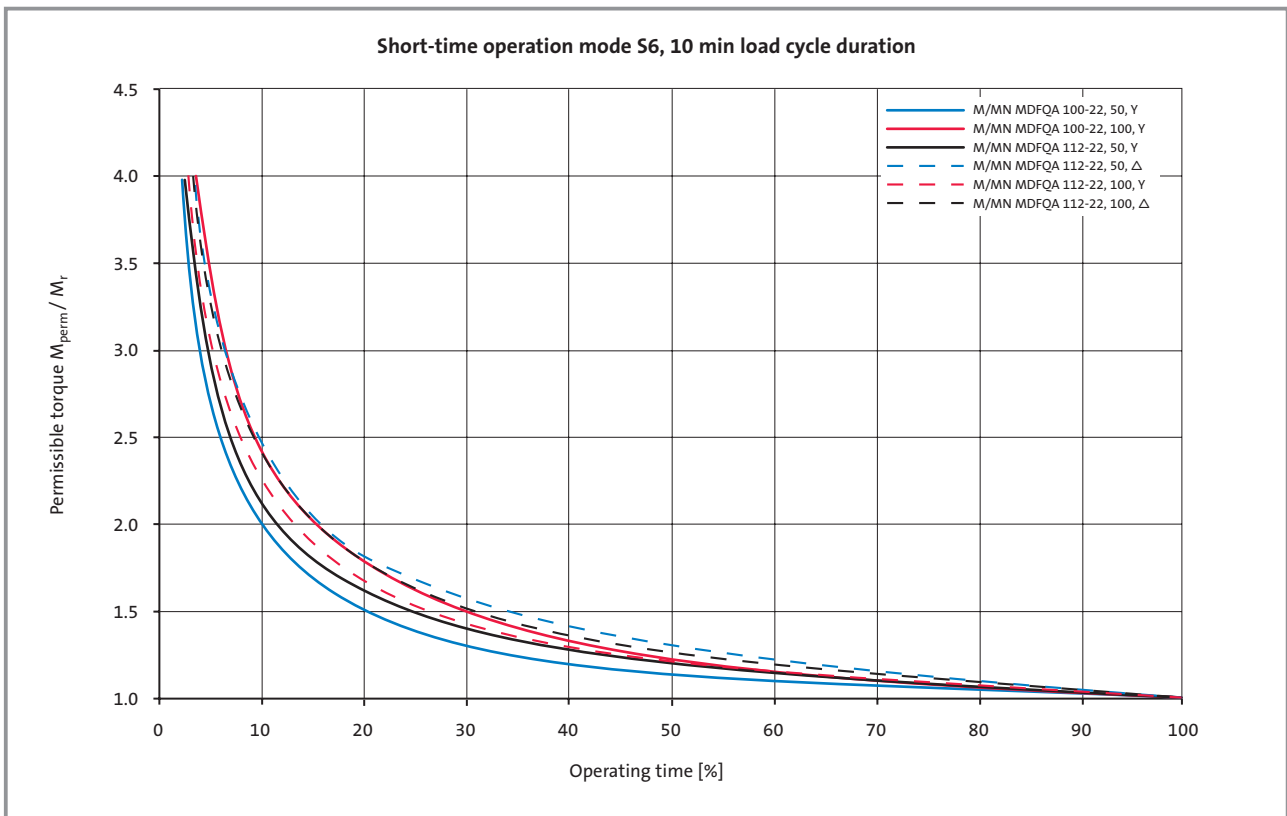
Lenze MDFQA servo motors can generate high torque peaks. In order to make full use of this highly dynamic response as simply as possible, without overloading the motor, the fol-

lowing diagrams for operating modes S2 and S6 illustrate the permissible operating times against the torque peaks required.



# Technical data

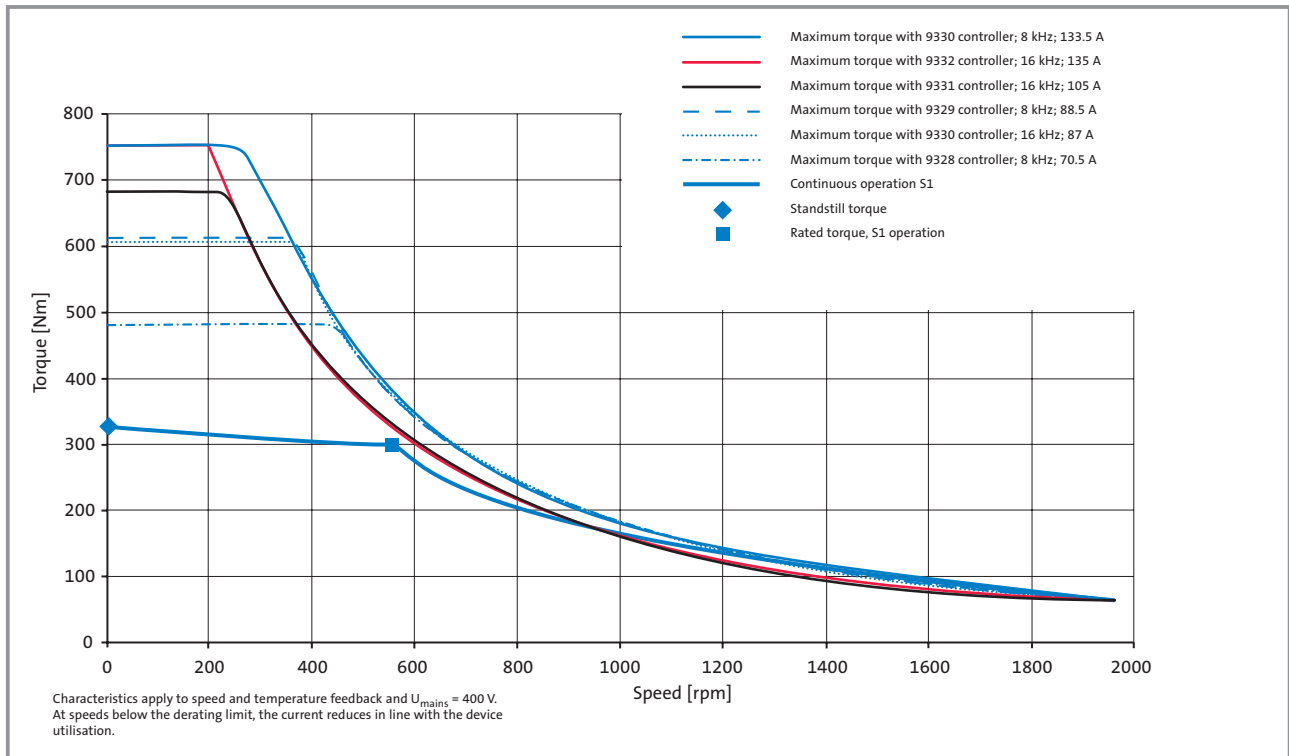
## MDFQA 100/112 asynchronous servo motors



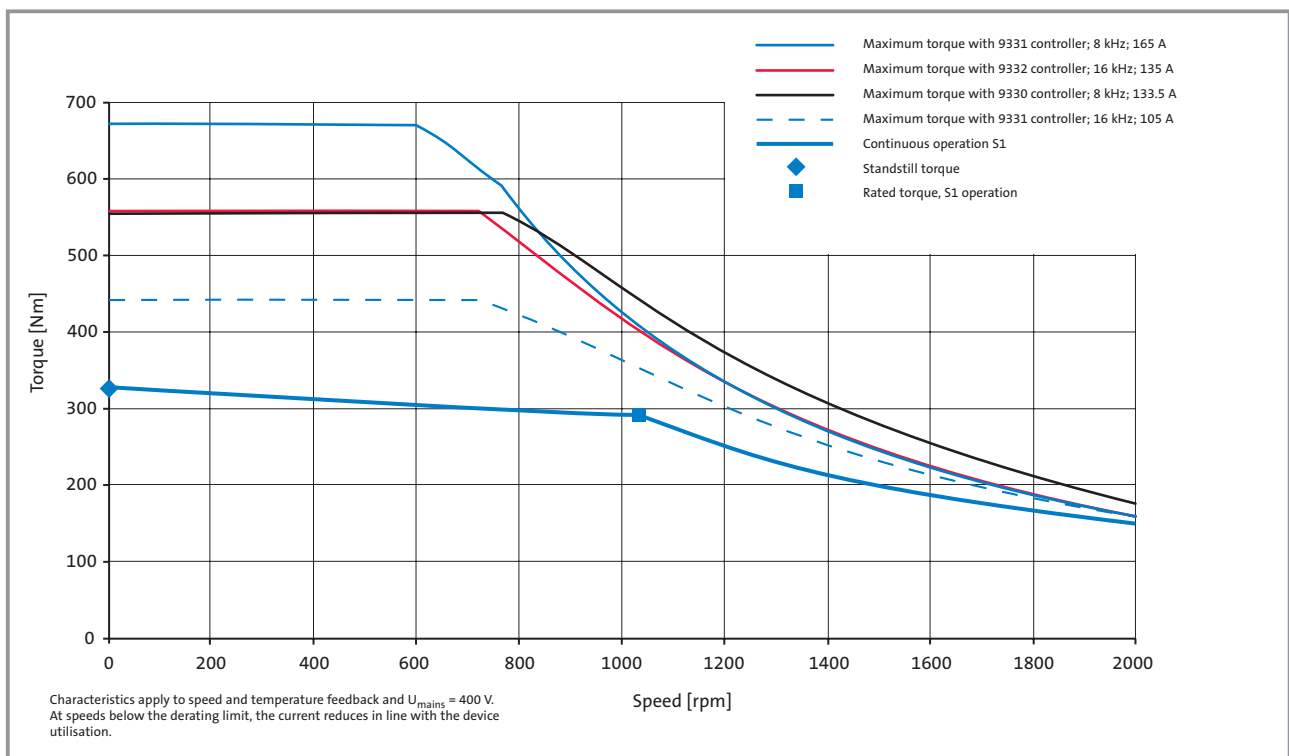


### Torque characteristics

#### MDFQA 132-32, 36, star connection with blower

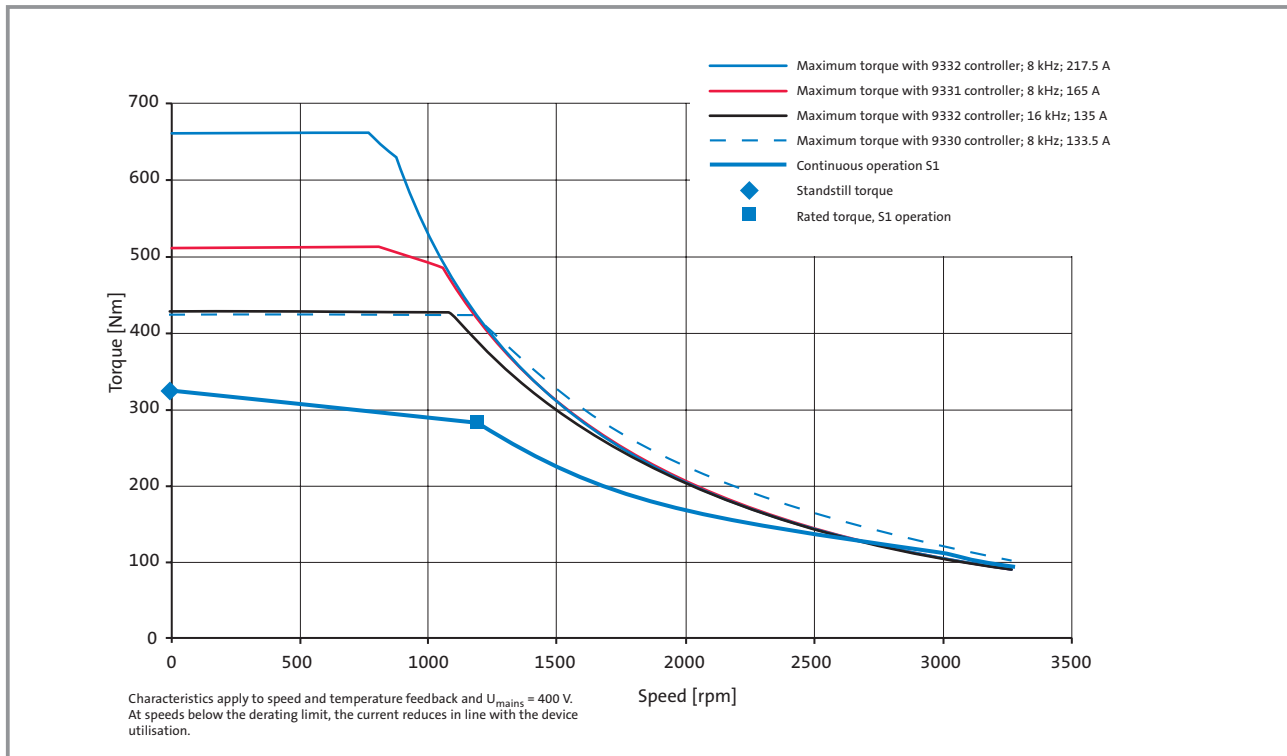


#### MDFQA 132-32, 36, delta connection with blower

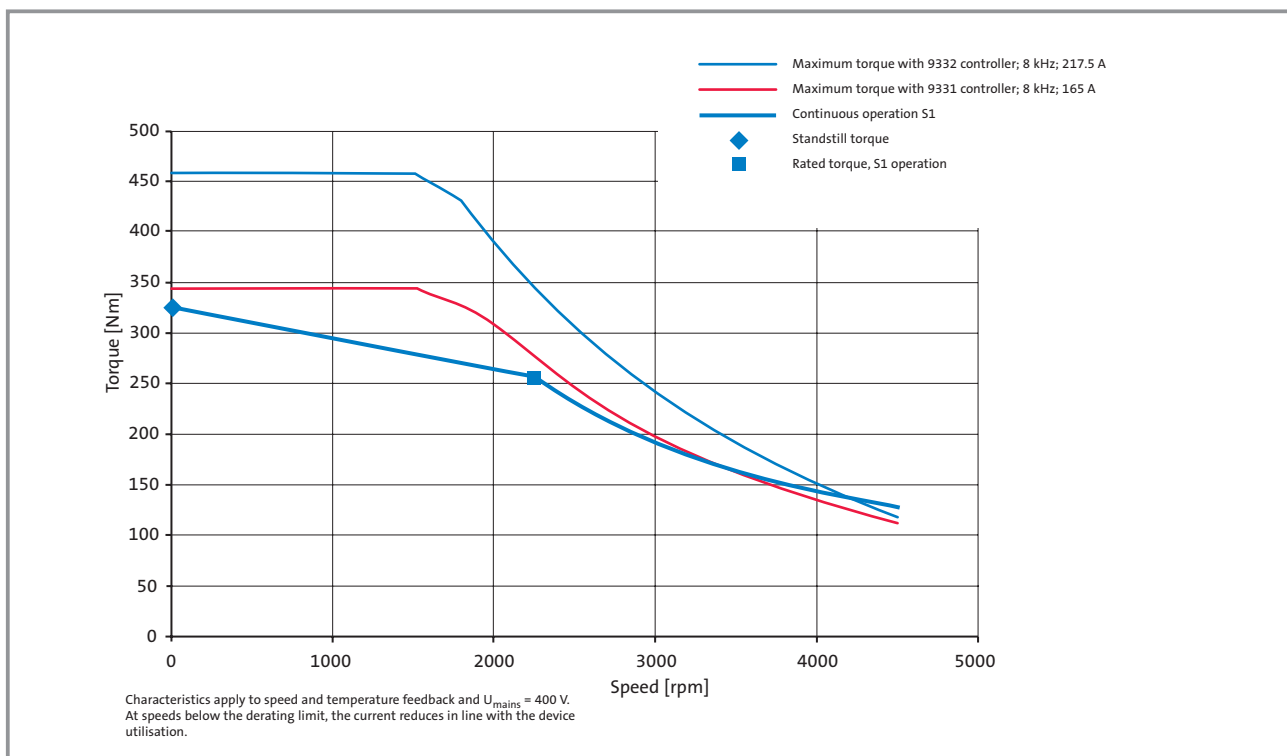


### Torque characteristics

#### MDFQA 132-32, 76, star connection with blower



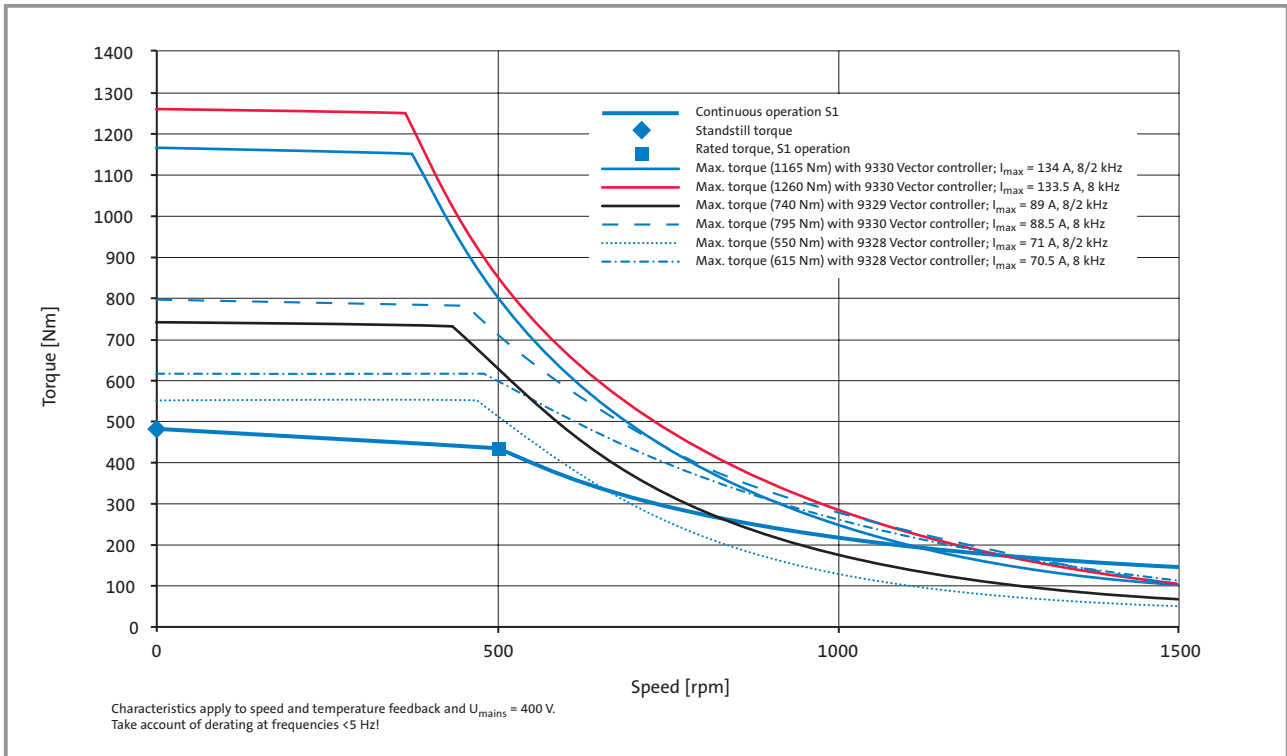
#### MDFQA 132-32, 76, delta connection with blower



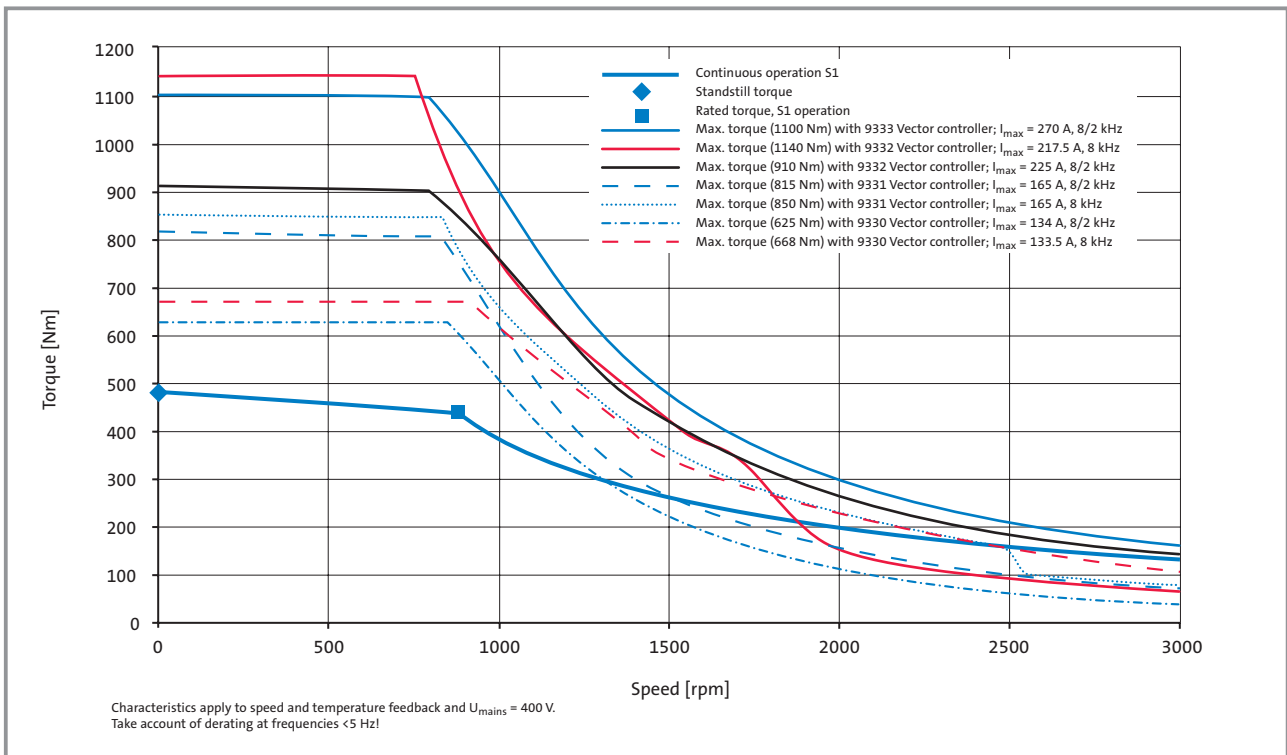


### Torque characteristics

#### MDFQA 160-32, 31, star connection with blower

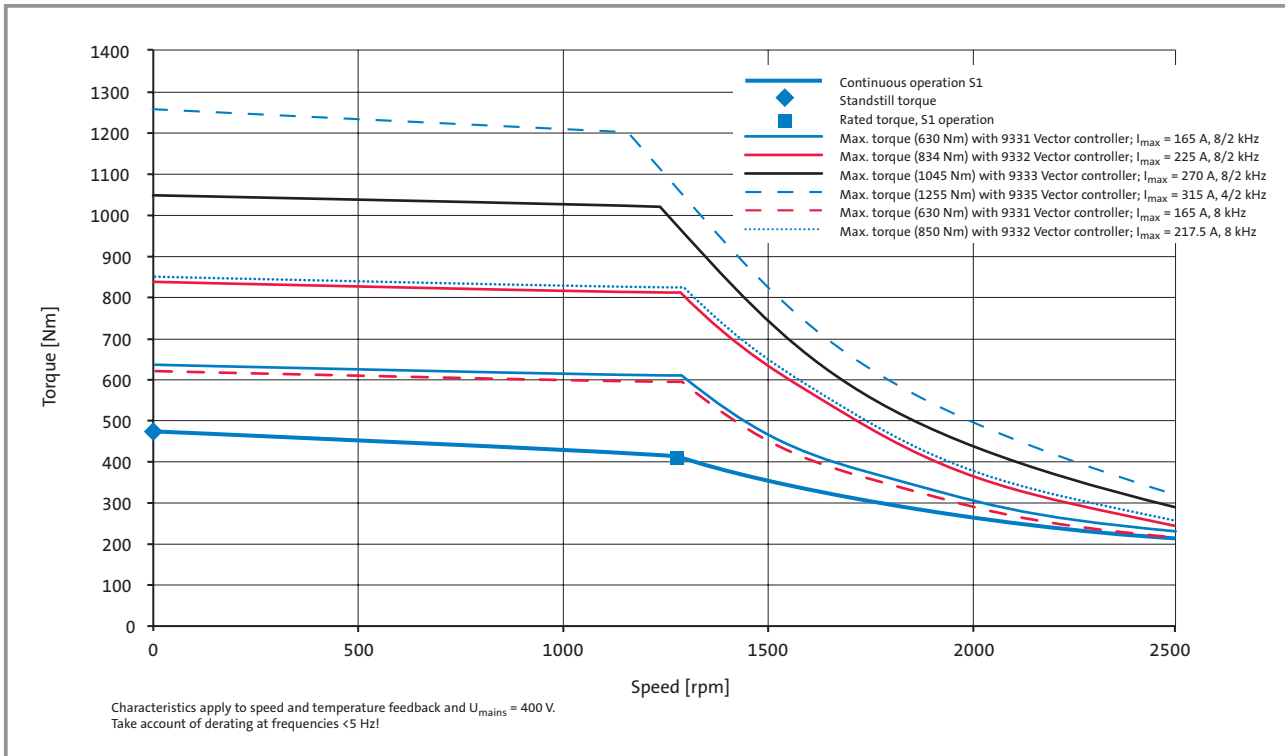


#### MDFQA 160-32, 31, delta connection with blower

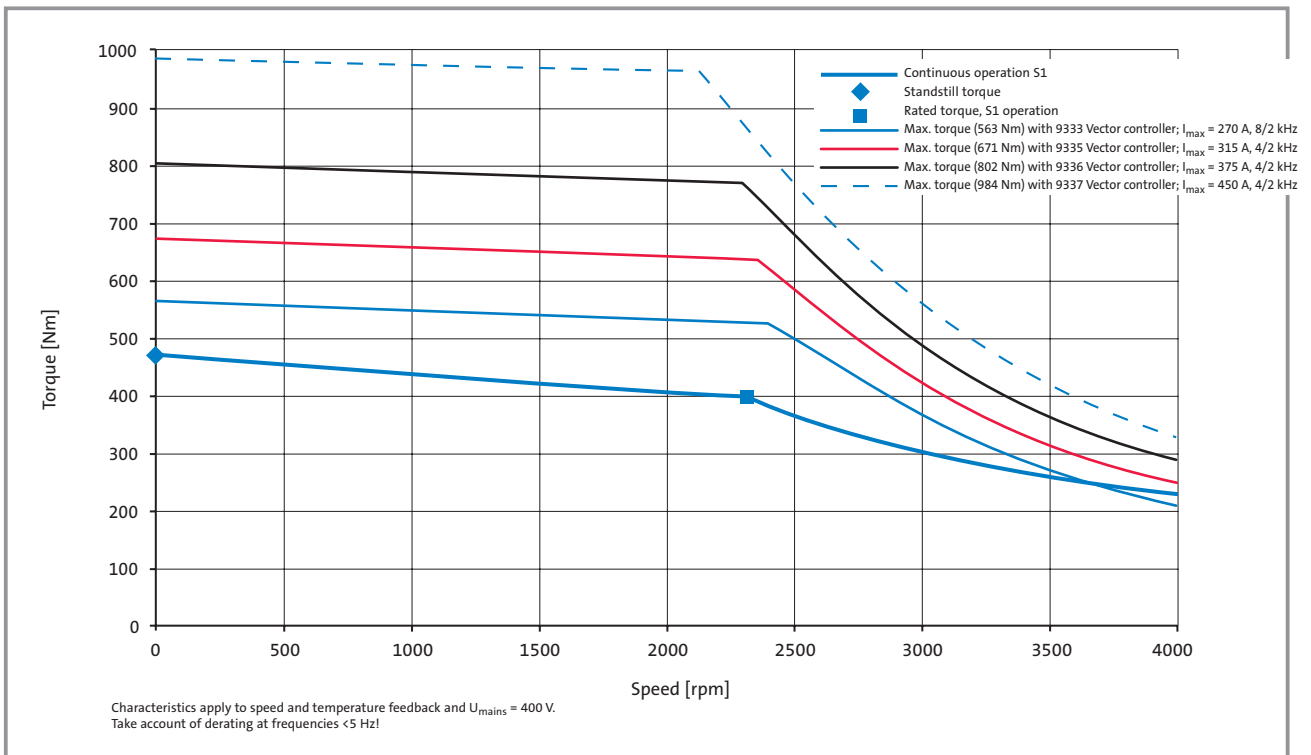


### Torque characteristics

#### MDFQA 160-32, 78, star connection with blower



#### MDFQA 160-32, 78, delta connection with blower





### Short-time operation characteristic

Lenze MDFQA servo motors can generate high torque peaks. In order to make full use of this highly dynamic response as simply as possible, without overloading the motor, the fol-

lowing diagrams for operating modes S2 and S6 illustrate the permissible operating times against the torque peaks required.

