



CARBOS[®]
TUBULAR MOTORS

TÜP MOTOR
TUBULAR MOTOR

2022

Hakkımızda

1989 yılında 16000 m2 kapalı alanda kurulan ve otomotiv yan sanayinde üretim yaparak sektör-deki yerini alan firmamız, zamanla bünyesine toz metalurji tesisi, metal enjeksiyon tesisi ve CNC kalıphanesi de ekleyerek, uzun bir süredir alanın-da uzman kalifiye personel kadrosu ile ağırlıklı olarak otomotiv, beyaz eşya ve makine sektörü-ne hizmet etmekle beraber 1. ve 2. seviye yan sanayi olarak da ana sanayilere hizmet vermek-tedir.

Firmamız yıllardır farklı sektörlerde proseslerde edindiği tecrübeleri birleştirerek Kapı ve Pencere sektöründe yerli üreticisi bulunmayan tüp motor imalatına büyük bir yatırım yaparak ülkemize yerli üretim adına katkıda bulunmuştur. 150 kişilik personel kadrosuyla günlük 2000 adet motor üretim kapasitesi mevcuttur.

About Us

Our company, having closed area of 16000 square-meters, was established on 1989 and since then mainly focused on producing parts for automotive industry. In time, powder metal plant, pressure die casting plant, machining plant and high technology tool shop started producing with qualified personnel. With new plants activity, we started providing products for automotive, white goods and machine manufacturers as first and second tier supplier.

Our long term experiences and know how on processes for variety of different products and applications led us to make huge investment and become Turkey's first local tubular motor manufacturer for roller shutters, awnings, roller blinds among foreign competitors. We can produce up to 2000 pieces of motor in a day with 150 qualified person-



SEMBOL AÇIKLAMALARI



MOTORLU KEPENK
Roller Door



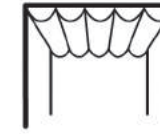
MOTORLU PANJUR
Roller Shutter



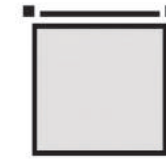
DAHİLİ ALICILI
Built in Receiver



TİLTİ PANJUR
Tilting Shutter



PERGOLA
Pergola



MOTORLU PERDE
Roller Blind



MOTORLU TENTE
Awning



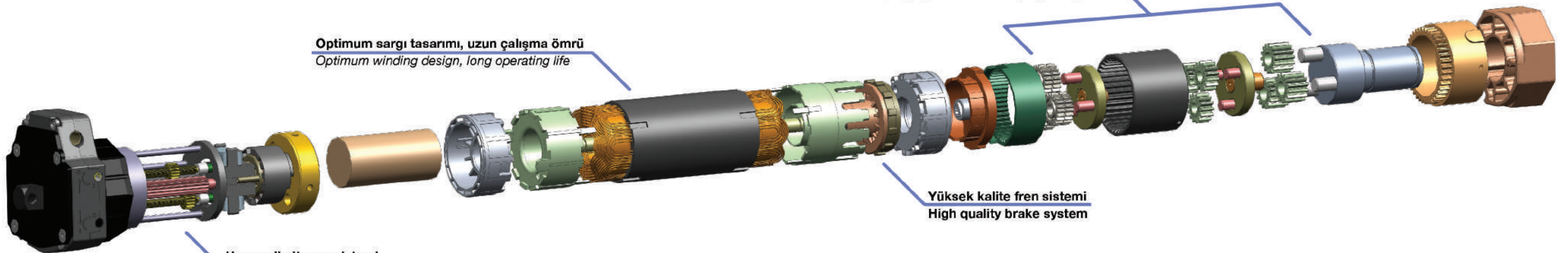
MOTORLU JALUZI
Venetian Blind

Düşük ses, yüksek performanslı rijit dişli sistem
Low noise, High performance rigid gear system

Optimum sargı tasarımı, uzun çalışma ömrü
Optimum winding design, long operating life

Yüksek kalite fren sistemi
High quality brake system

Hassas limit ayar sistemi
Precise limit setting system





İÇİNDEKİLER

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Control Systems



CTM 60 SERİSİ

CTM 60S SERİSİ

CTM 60S SERIES

Mekanik Limit
Mechanical Limit

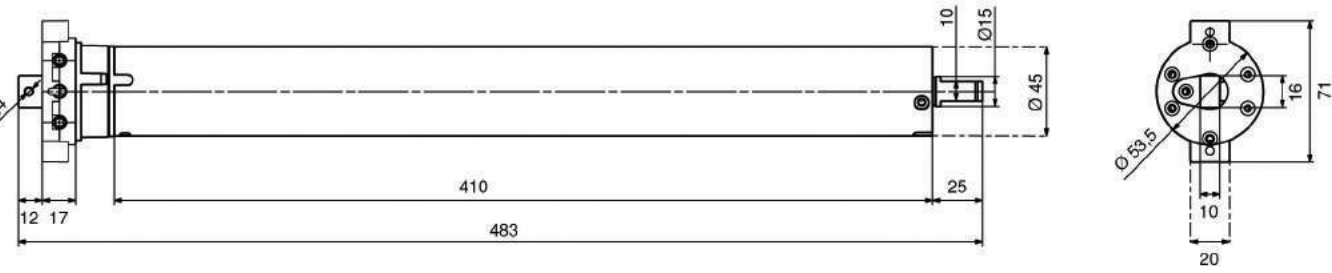
Ø 45 mm



KULLANIM USE



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
CTM 60S-10/15	10Nm	15rpm	45mm	230V / 50Hz	106W	0,48A	IP44
CTM 60S-20/15	20Nm	15rpm	45mm	230V / 50Hz	143W	0,65A	IP44
CTM 60S-30/15	30Nm	15rpm	45mm	230V / 50Hz	180W	0,82A	IP44
CTM 60S-40/15	40Nm	15rpm	45mm	230V / 50Hz	187W	0,85A	IP44
CTM 60S-50/12	50Nm	12rpm	45mm	230V / 50Hz	198W	0,90A	IP44

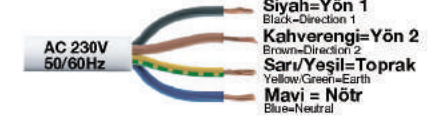
110V / 60Hz üretilebilir 110V / 60Hz available

CTM 60R SERİSİ

CTM 60R SERIES

Mekanik Limit
Mechanical Limit
Dahili Alıcı
Built in receiver

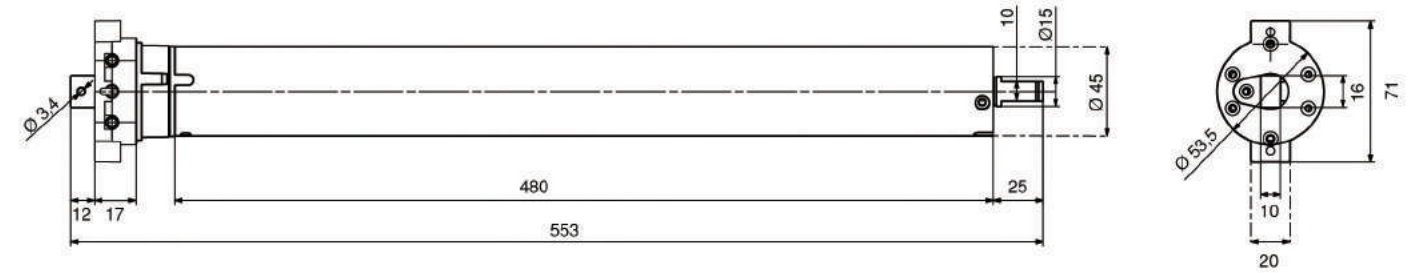
Ø 45 mm



KULLANIM USE



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
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CTM 60R-50/12	50Nm	12rpm	45mm	230V / 50Hz	198W	0,90A	IP44

110V / 60Hz üretilebilir 110V / 60Hz available

CTM 60RE SERİSİ

CTM 60RE SERIES

Elektronik Limit
Electronical Limit
Dahili Alıcı
Built in receiver

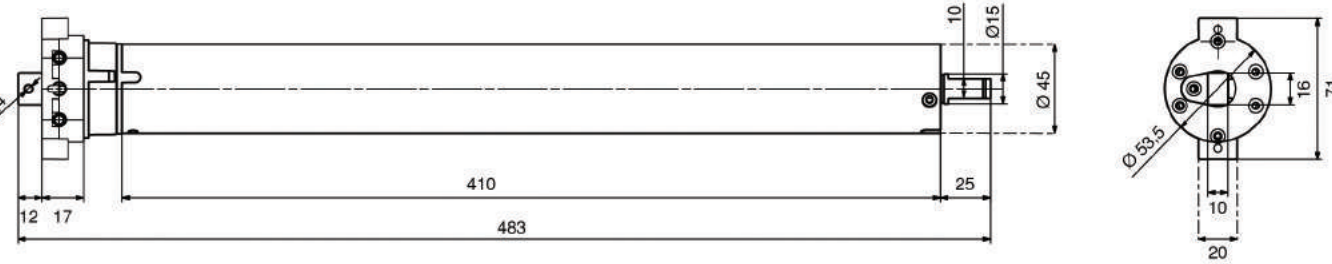
Ø 45 mm



KULLANIM USE



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
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110V / 60Hz üretilebilir 110V / 60Hz available



CTM 70 SERIES

CTM 70 SERİSİ

CTM 70S SERİSİ

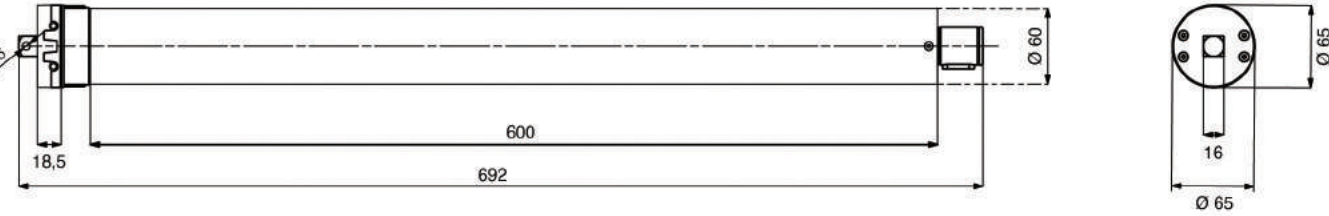
CTM 70S SERIES

Mekanik Limit
Mechanical Limit

Ø 60 mm



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
CTM 70S-60/12	60Nm	12rpm	60mm	230V / 50Hz	300W	1,4A	IP44
CTM 70S-80/12	80Nm	12rpm	60mm	230V / 50Hz	310W	1,5A	IP44
CTM 70S-100/12	100Nm	12rpm	60mm	230V / 50Hz	400W	1,82A	IP44
CTM 70S-120/9	120Nm	9rpm	60mm	230V / 50Hz	350W	1,6A	IP44
CTM 70S-140/9	140Nm	9rpm	60mm	230V / 50Hz	385W	1,75A	IP44
CTM 70S-150/9	150Nm	9rpm	60mm	230V / 50Hz	420W	1,9A	IP44
CTM 70S-180/7	180Nm	7rpm	60mm	230V / 50Hz	460W	2,1A	IP44

110V / 60Hz üretilebilir 110V / 60Hz available

CTM 70M SERİSİ

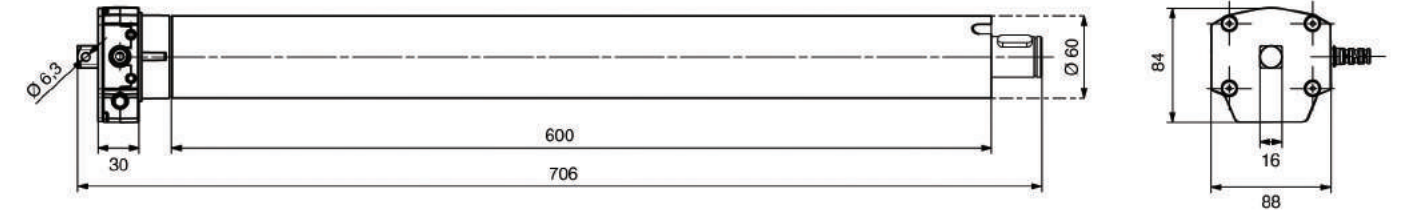
CTM 70M SERIES

Mekanik Limit
Mechanical Limit
Manuel Kullanım
Manual override

Ø 60 mm



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
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110V / 60Hz üretilebilir 110V / 60Hz available

CTM 70R SERİSİ

CTM 70R SERIES

Mekanik Limit

Mechanical Limit

Dahili Alıcı

Built in receiver

Tilt Özelliği

Tilt Function

Engel Algılama

Resistance Rebound

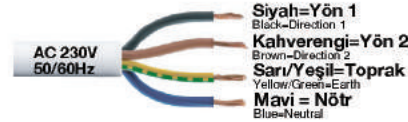
Ara Limit Tanımlama

Third Limit Option

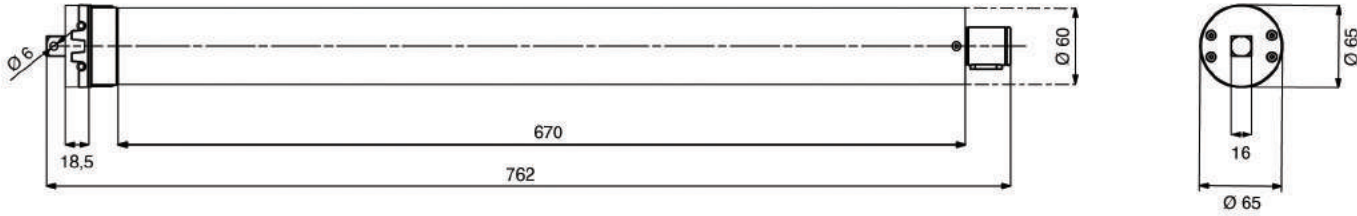
Ø 60 mm



KULLANIM USE



MOTOR ÖLÇÜLERİ MOTOR DIMENSIONS



TEKNİK DETAY TABLOSU TECHNICAL DETAIL CHART

MODEL MODEL	TORK RATED TORQUE	DEVİR RATED SPEED	MOTOR ÇAPI MOTOR DIA.	VOLTAJ RATED VOLTAGE	GÜÇ RATED POWER	AKIM RATED CURRENT	KORUMA PROTECTION CLASS
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110V / 60Hz üretilebilir 110V / 60Hz available

CTM 70RE SERİSİ

CTM 70RE SERIES

Elektronik Limit

Electronical Limit

Dahili Alıcı

Built in receiver

Tilt Özelliği

Tilt Function

Engel Algılama

Resistance Rebound

Ara Limit Tanımlama

Third Limit Option

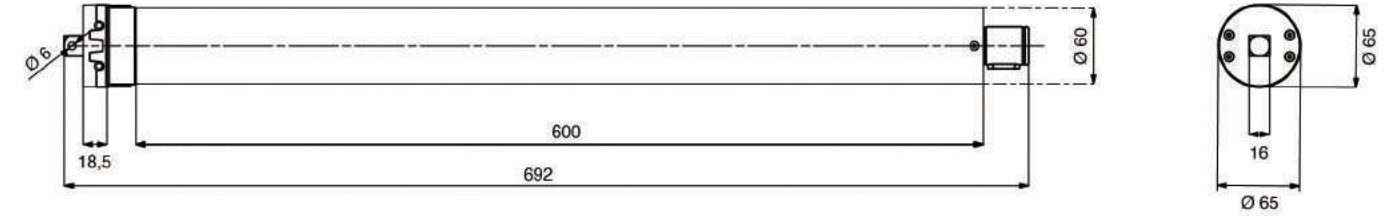
Ø 60 mm



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110V / 60Hz üretilebilir 110V / 60Hz available



KONTROL SİSTEMLERİ CONTROL SERIES



ELİT 1

Kanal Sayısı: 1
Number of channel: 1
Çalışma voltajı: 3V
Power supply: 3V
Pil tipi: 2 x CR 2032
Battery type: 2 x CR 2032
Frekans: 433,92 MHz
Frequency: 433,92 MHz
Kodlama: Değişken tip
Coding: Rolling Code
Çalışma sıcaklığı: -20 °C/+60 °C
Working temperature: -20 °C/+60 °C
Ölçüler: 110 x 34 x 14,5 mm
Dimensions: 110 x 34 x 14,5 mm



ELİT 5

Kanal Sayısı: 5
Number of channel: 5
Çalışma voltajı: 3V
Power supply: 3V
Pil tipi: 2 x CR 2032
Battery type: 2 x CR 2032
Frekans: 433,92 MHz
Frequency: 433,92 MHz
Kodlama: Değişken tip
Coding: Rolling Code
Çalışma sıcaklığı: -20 °C/+60 °C
Working temperature: -20 °C/+60 °C
Ölçüler: 110 x 34 x 14,5 mm
Dimensions: 110 x 34 x 14,5 mm



ELİT 15

Kanal Sayısı: 15
Number of channel: 15
Çalışma voltajı: 3V
Power supply: 3V
Pil tipi: 2 x CR 2032
Battery type: 2 x CR 2032
Frekans: 433,92 MHz
Frequency: 433,92 MHz
Kodlama: Değişken tip
Coding: Rolling Code
Çalışma sıcaklığı: -20 °C/+60 °C
Working temperature: -20 °C/+60 °C
Ölçüler: 110 x 34 x 14,5 mm
Dimensions: 110 x 34 x 14,5 mm



Ergonomik tasarım
Ergonomic design
Kaymaz kaplama
Non slippery coating
Pil seviyesi düşük uyarısı
Low battery indication
Duvar askı aparatı
Wall mounting bracket
Darbelere dayanıklı yapı
Impact resistant strong body
Uzun pil ömrü
Long battery life

Ergonomik tasarım
Ergonomic design
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Impact resistant strong body
Uzun pil ömrü
Long battery life

ER-AY GROUP

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Turkey

Discover
the potential

