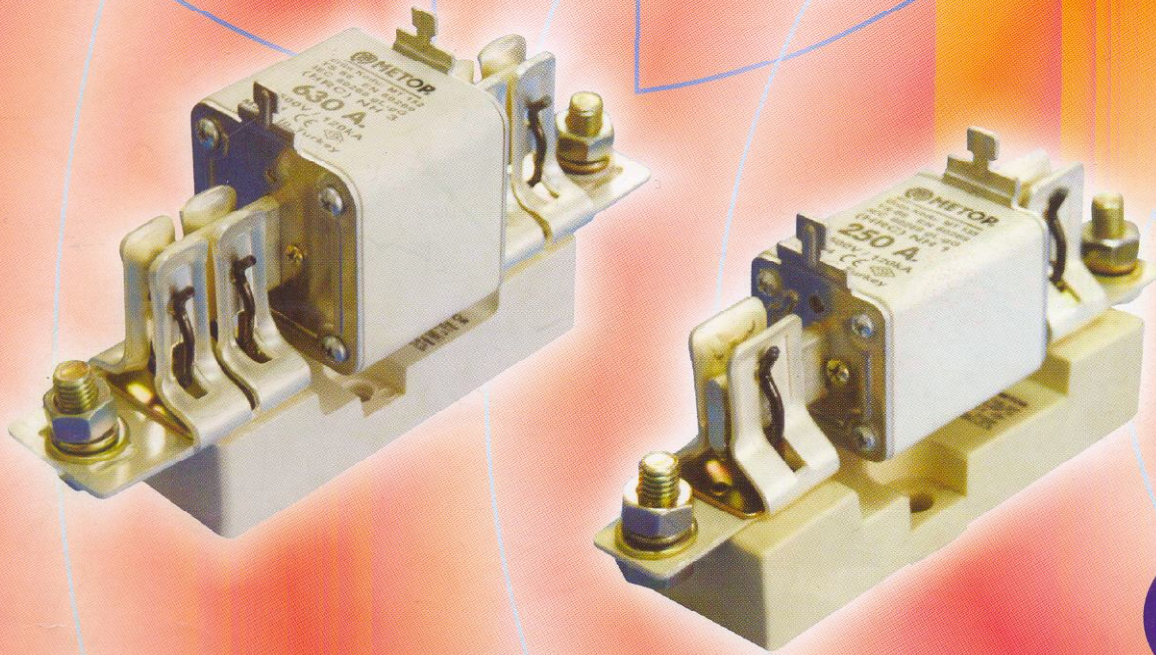


NH Bıçaklı Sigorta Serisi / HRC Fuse Series



40 yıldır Kalite ve Güvenle...
Quality and Confidence for 40 years...


METOP®
ELEKTRİK SANAYİ VE TİCARET LTD. ŞTİ

METOP NH BİÇAKLI SİGORTA SERİSİ

Metop NH Bıçaklı Sigorta Serisi, uzun yılların verdiği tecrübe ile ISO 9001/2000 Belgelerine sahip tesislerinde CE direktiflerine göre üretilmektedir. 120 kA Kesme kapasitesi, düşük güç kayıpları, ilgili standartlara uygun Zaman Akım Karakteristiği ile 40 yıldır Türkiye’de ve Dünya’da müşterilerimizin tercihi olmuştur.

Eriyen Telli Alçak Gerilim Sigortası

Eriyen Telli Sigorta, aşırı akım ve kısa devreye karşı elektrikli cihazları ve tesisatı koruyan devre elemanıdır. Sigorta içinden geçen akım, belirli bir süre için belirli bir değeri aştığında özel olarak tasarlanmış sigorta teli eriyerek devreyi korur. Metop Bıçaklı Sigorta Serisi üstün kesme yetenekleri ve yüksek kesme kapasiteleri ile devre korumasında güvenilir ve ekonomik çözümler sunar.

NH Bıçaklı Sigorta Serisini Oluşturan Ürün Grupları

Mekanik ve Termik şoklara dayanıklı KER 221’e uygun Steatit gövde, uzun tecrübelerle dayanarak özel tasarlanmış eriyen tel sistemi ve tiz bir şekilde seçilerek hazırlanmış kuartz kumdan oluşmaktadır. Bıçaklı Sigorta Altlığı : KER 221 Steatit ve Cam-Elyaf olmak üzere iki ayrı çeşitte üretilen altlıklar, sigorta buşonunun devreye bağlanmasını sağlar.

Ellik : Sigorta buşonunun altlığa takılıp çıkarılmasını emniyetli olarak sağlayan üründür.

İlgili Standartlar :

Metop NH Bıçaklı Sigorta Serisi, gL/gG devre korumalı tip olarak tasarlanmıştır. Devre üzerinde belirlenen değer in üstünde oluşabilecek akımlarda standartlarda belirlenen sürede devreyi keserler.

Standartlar / Standards :



TS 86 EN 60269-1
IEC 60269-1, IEC 60269-2-1



TÜV EN ISO 9001:2000



Anma Akımı :

Metop NH Bıçaklı Sigorta Serisi 00,0,1,2,3, boy olmak üzere 25Amper’ den 630 Amper’e kadar üretilmektedir.

Boy	Buşon Sınır Anma Akımları	Altlık Anma Akımı
00	25-160 A	160 A
0	25-160 A	160 A
1	25-250 A	250 A
2	32-400 A	400 A
3	300-630 A	630 A

Anma Gerilimi : AC 500 V DC 440 V

METOP HRC FUSE SERIES

Metop HRC Fuse Series is produced in ISO 9001/2000 certificated facilities according EC rules for 40 years. These fuses became preference of Turkish and worldwide customers due to rated breaking capacity of 120 kA, lower power dissipation, Time-Current Characteristic as appropriate of International Standards.

Low Voltage Fuses

Metop HRC Fuse Series are current-limiting fuse-links with excellent rated breaking capacity and breaking characteristics which provides economic solutions and protections.

Fuses and Their Components Parts

Fuse:

Device made by KER 221 Steatite Ceramics that by the fusing of one or more of its specially designed and proportioned components opens the circuit in which it is inserted by breaking the current when this exceeds a given value for a sufficient time. The fuse comprises all parts that form the complete device.

Fuse-Holder :

Combination of the fuse-base with its fuse-carrier.

Fuse-Handle :

Operating Device that inserts the fuse to the fuse-folder.

Rated Values of Metop HRC Fuse Series :

Size	Rated Current of Fuse	Rated Current of Fuse-Holder
00	25-160 A	160 A
0	25-160 A	160 A
1	25-250 A	250 A
2	32-400 A	400 A
3	300-630 A	630 A

Rated Current : AC 500 V DC 440 V



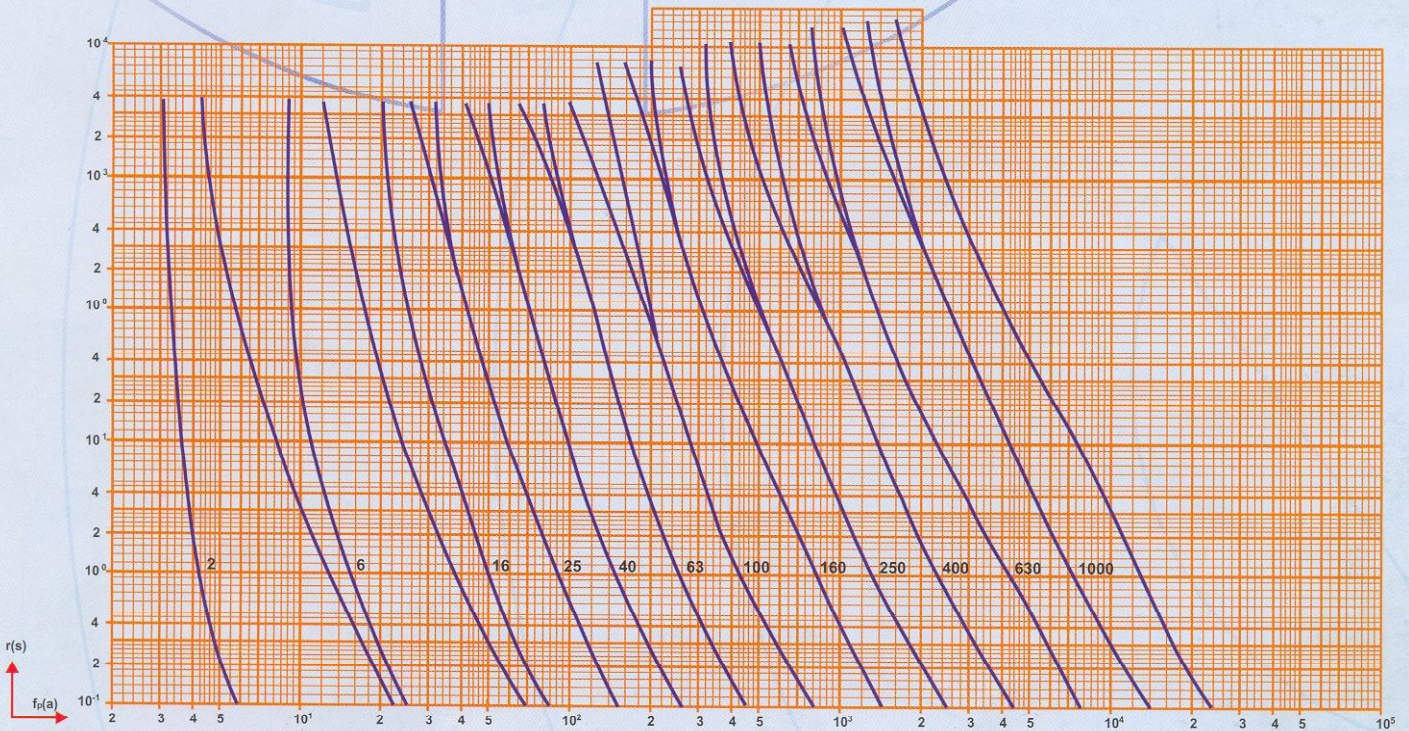
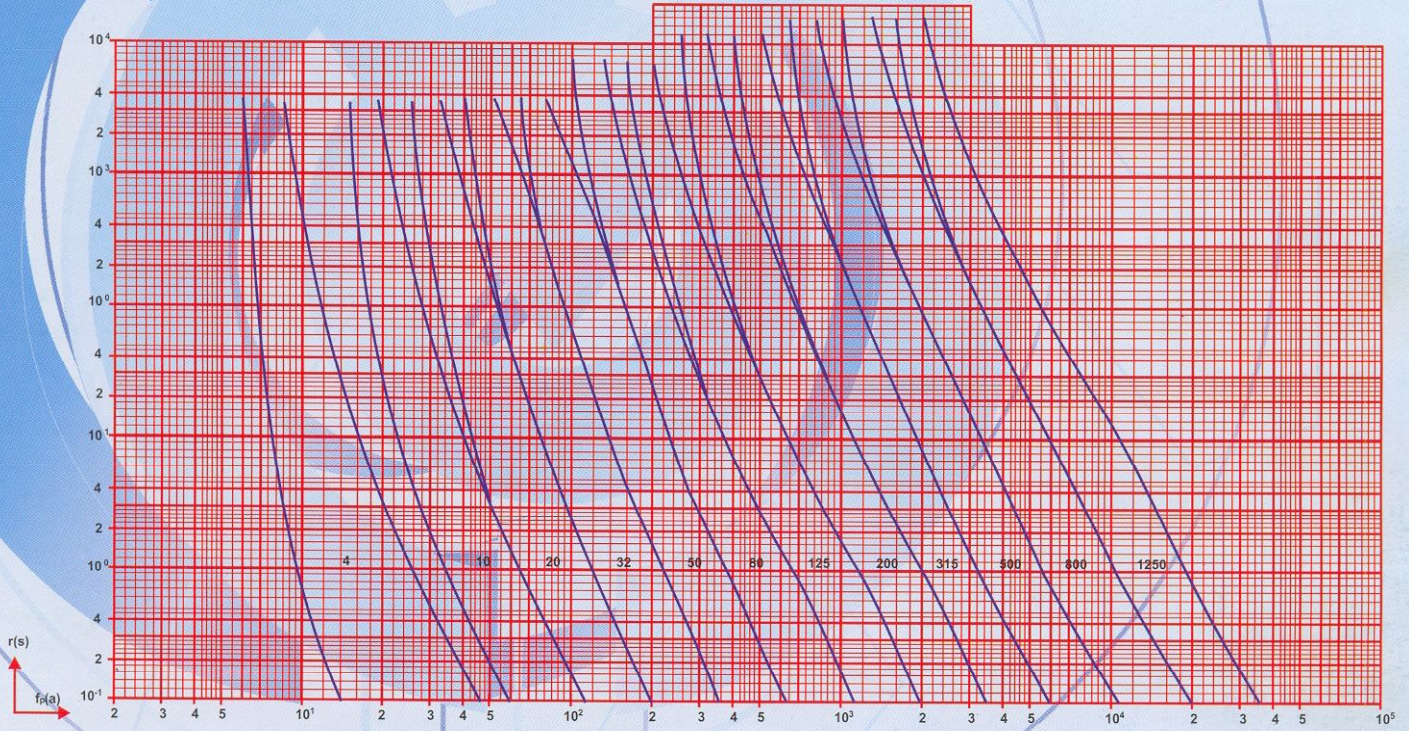
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ZAMAN - AKIM KARAKTERİSTİĞİ

TIME - CURRENT CHARACTERISTICS

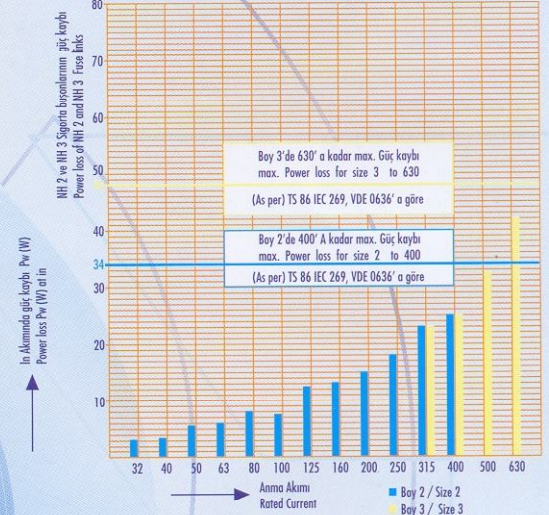
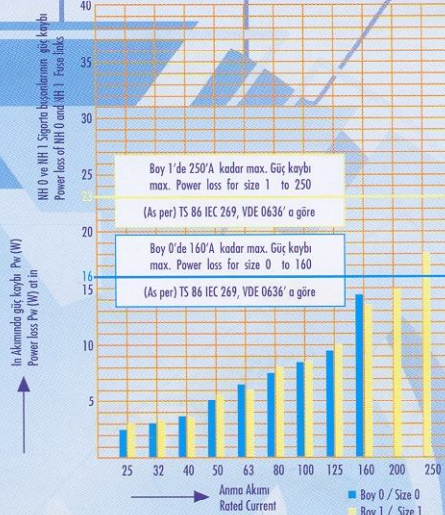
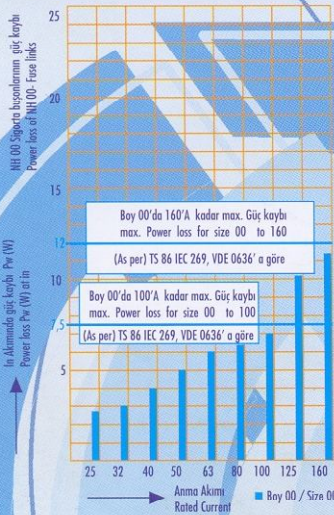
Metop NH Bıçaklı Sigorta Serisine ait Zaman-Akım Değerleri IEC 269-1, IEC 269-2-1 ve TS 86 EN 60269-1, TS EN 60269-2-1 standartlarında belirtilen sınırlar içerisinde kalmaktadır.

Metop HRC Fuse Series are appropriate as the curve giving the pre-arcing time or operating time as a function of the prospective current under stated conditions of operation in IEC 269-1, IEC 269-2-1 and TS 86 EN 60269-1, TS EN 60269-2-1 Standards.



MAKSİMUM GÜÇ KAYBI DEĞERLERİ

MAXIMUM POWER DISSIPATIONS



Sigorta Güç Kaybı, devreye bağlanmış sigorta buşonunun anma akımında ortama yaydığı ısı enerjisidir. Metop NH Bıçaklı Sigorta Serisinin güç kaybı değerleri, IEC 269-1, IEC 269-2-1 ve TS 86 EN 60269-1, TS EN 60269-2-1 standartlarında belirtilen güç kayıp üst değerlerinden daha düşüktür. Bu özellikli buşonun aynı zamanda enerji tasarrufu sağladığını gösterir.

Power dissipation is released in a fuse-link carrying rated current under specified conditions stated in IEC 269-1, IEC 269-2-1 ve TS 86 EN 60269-1, TS EN 60269-2-1 Metop HRC Fuse Series has lower power dissipation under stated in standards. This creates energy savings

SELEKTİVİTE (AŞIRI AKIM SEÇİCİLİĞİ)

SELECTIVITY

Metop NH Bıçaklı Sigorta Serisi, TS 86 EN 60269-1 IEC 269-1 VDE 0636 standartlarında açıklanan selektivite oranlarını tam olarak sağlar.

Metop NH Bıçaklı Sigorta Serisinin, Selektivite değerleri uluslararası test laboratuvarlarında test edilerek doğrulanmıştır.

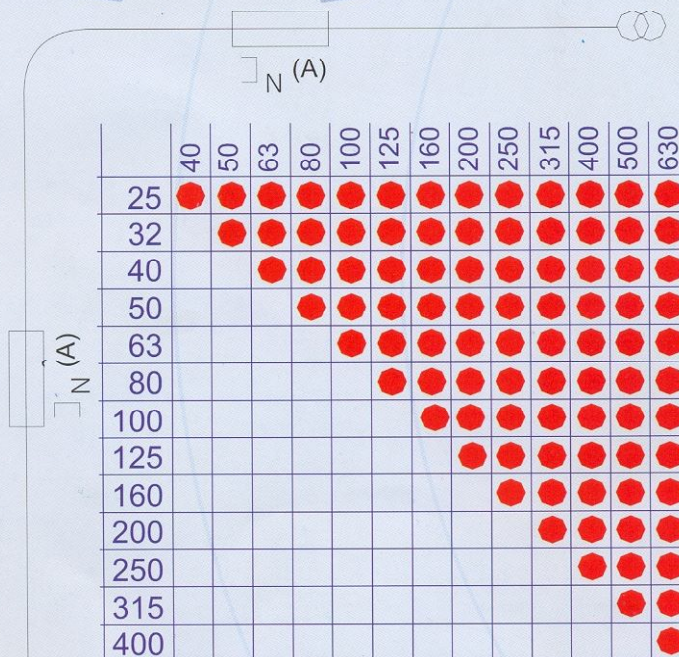
Metop NH Bıçaklı Sigorta Serisi ile aşağıda gösterilen selektivite tablosuna göre tam selektive koruma sağlanmış olur.

Metop HRC Fuse Series are selectivity with ratio of 1:1,6. as in standards TS 86 EN 60269-1 IEC 269-1 VDE 0636

Metop HRC Fuse Series are gG Class Fuses designed to cut-off and protect even the smaller parts of the circuit. By its characteristics, they keep the previous fuses operate whole electricity circuits of power supply as built in scale.

Metop HRC Fuse Series provides full protection of circuit if operated under stated in circuit.

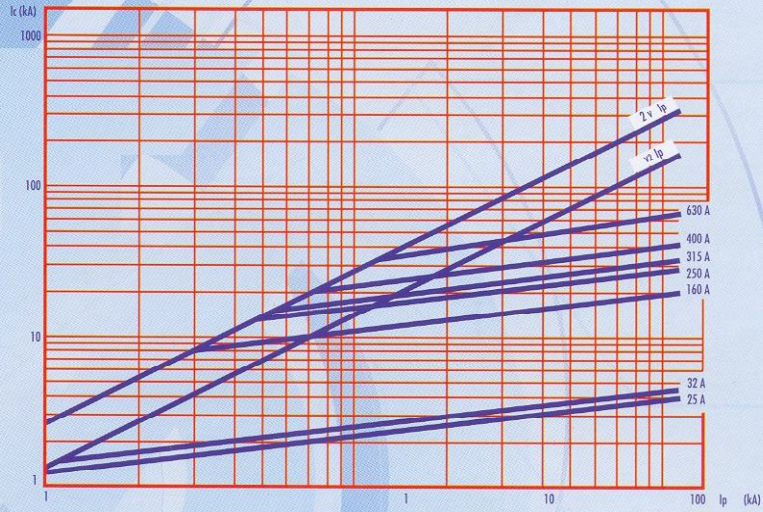
Selectivity table only.



KESME KAPASİTESİ GRAFİĞİ

BREAKING CAPACITY

Uluslararası test laboratuvarlarında yapılan kesme kapasitesi testleri sonuçlarına göre Metop NH Sigorta kesme kapasitesi grafiği



STEATİT NH BİÇAKLI SİGORTA BUŞONLARI

HRC STEATİT FUSES



NH 00 BOY

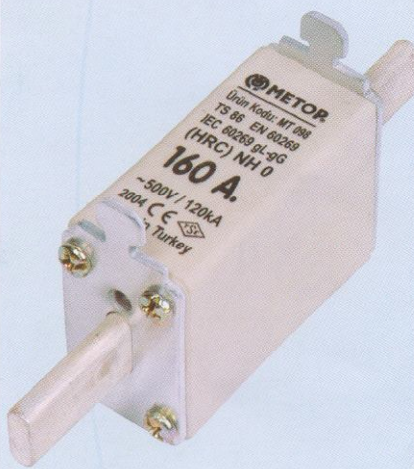
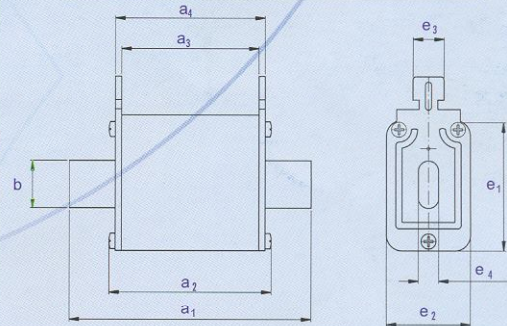
HRC SIZE 00

Ürün Kodu / Item Number	Anma Akımı / Rated Current (A)	Adet / Kutu Pcs / Carton
----------------------------	--------------------------------------	-----------------------------

MT 109	16 A	6
MT 110	25 A	6
MT 111	32 A	6
MT 112	40 A	6
MT 113	50 A	6
MT 114	63 A	6
MT 115	80 A	6
MT 116	100 A	6
MT 117	125 A	6
MT 118	160 A	6

a₁ a₂ a₃ a₄ b e₁ e₂ e₃ e₄

78,5 54 45 49 15 44 30 10 6



NH 0 BOY

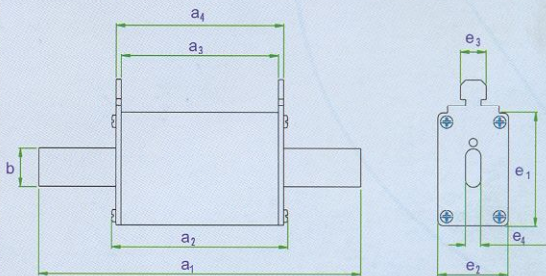
HRC SIZE 0

Ürün Kodu / Item Number	Anma Akımı / Rated Current (A)	Adet / Kutu Pcs / Carton
----------------------------	--------------------------------------	-----------------------------

MT 090	25 A	6
MT 091	32 A	6
MT 092	40 A	6
MT 093	50 A	6
MT 094	63 A	6
MT 095	80 A	6
MT 096	100 A	6
MT 097	125 A	6
MT 098	160 A	6

a₁ a₂ a₃ a₄ b e₁ e₂ e₃ e₄

125 70 62 68 15 44 28 10 6



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NH 1 BOY

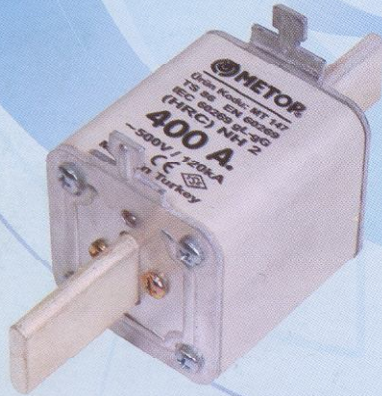
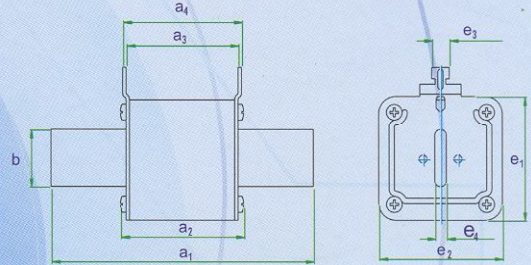
HRC SIZE 1

Ürün Kodu / Item Number	Anma Akımı / Rated Current (A)	Adet / Kutu Pcs / Carton
----------------------------	--------------------------------------	-----------------------------

MT 125	25 A	3
MT 126	32 A	3
MT 127	40 A	3
MT 128	50 A	3
MT 129	63 A	3
MT 130	80 A	3
MT 131	100 A	3
MT 132	125 A	3
MT 133	160 A	3
MT 134	200 A	3
MT 135	250 A	3

a₁ a₂ a₃ a₄ b e₁ e₂ e₃ e₄

135 68 62 68 20 47 46 10 6



NH 2 BOY

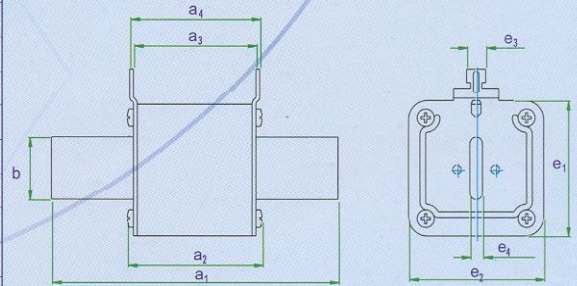
HRC SIZE 2

Ürün Kodu / Item Number	Anma Akımı / Rated Current (A)	Adet / Kutu Pcs / Carton
----------------------------	--------------------------------------	-----------------------------

MT 136	32 A	3
MT 137	40 A	3
MT 138	50 A	3
MT 139	63 A	3
MT 140	80 A	3
MT 141	100 A	3
MT 142	125 A	3
MT 143	160 A	3
MT 144	200 A	3
MT 145	250 A	3
MT 146	315 A	3
MT 147	400 A	3

a₁ a₂ a₃ a₄ b e₁ e₂ e₃ e₄

150 68 62 68 25 57 57 10 6



NH 3 BOY

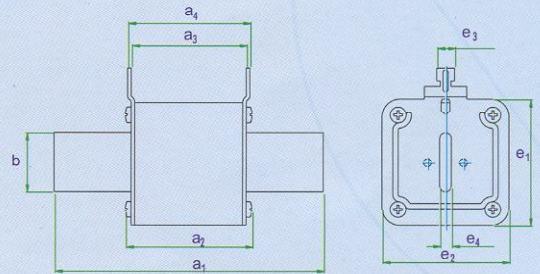
HRC SIZE 3

Ürün Kodu / Item Number	Anma Akımı / Rated Current (A)	Adet / Kutu Pcs / Carton
----------------------------	--------------------------------------	-----------------------------

MT 148	300 A	3
MT 149	315 A	3
MT 150	400 A	3
MT 151	500 A	3
MT 152	630 A	3

a₁ a₂ a₃ a₄ b e₁ e₂ e₃ e₄

150 71 62 68 32 72 72 10 6



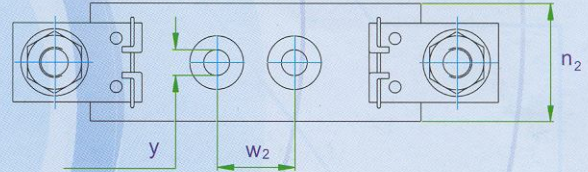
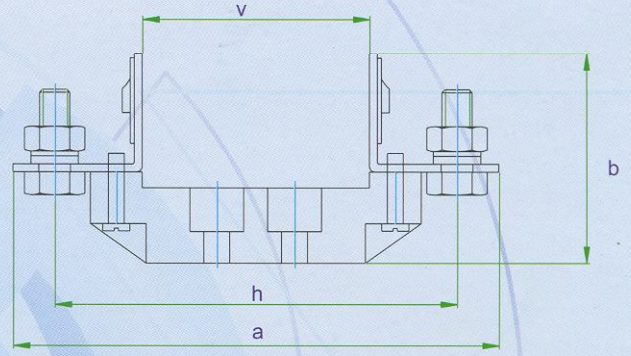
STEATİT (KER 221) STEATITE



MT 162 NH 00 BOY

MT 162 HRC SIZE 00

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25

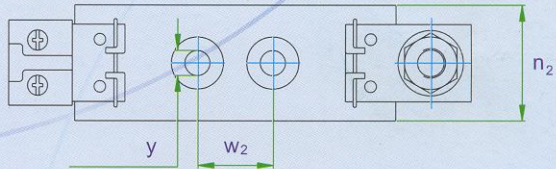
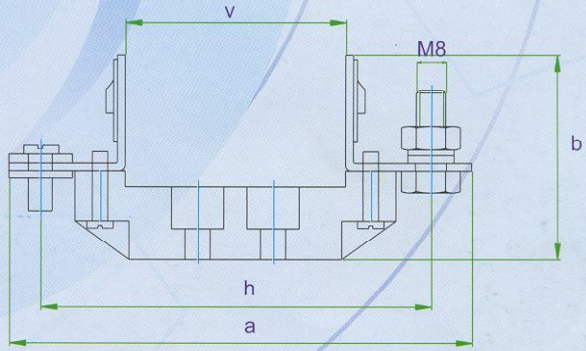


STEATİT (KER 221) STEATITE

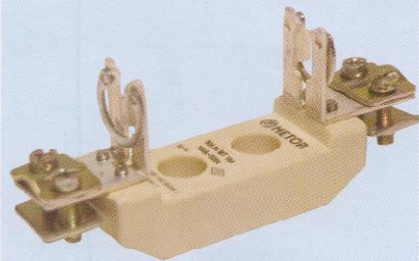


MT 163 NH 00 TEK TARAFI KLEMENSLİ
MT 163 HRC SIZE 00 TYPE 2

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25

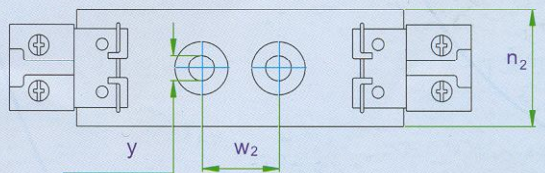
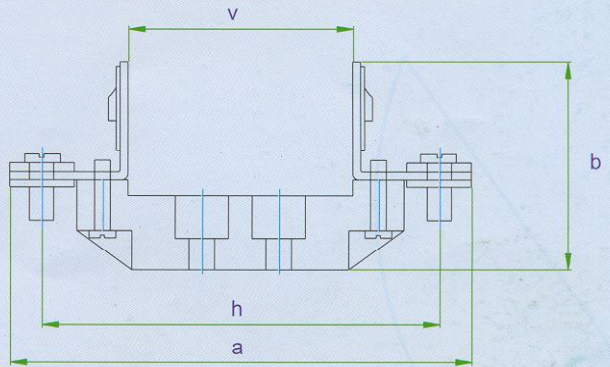


STEATİT (KER 221) STEATITE



MT 164 NH 00 KLEMENSLİ
MT 164 HRC SIZE 00 TYPE 3

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25



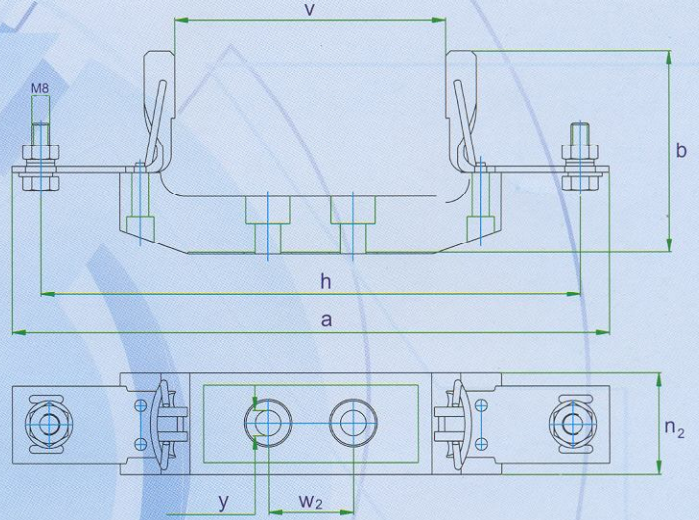
STEATİT (KER 221) STEATITE



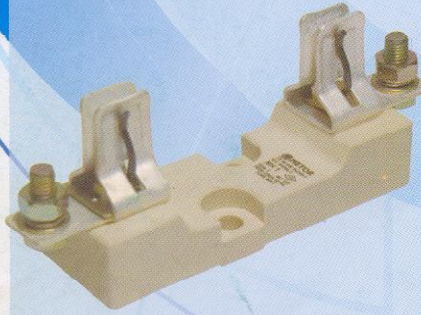
MT 153 NH 0 BOY

MT 153 HRC SIZE 0

a	168
b	55
h	150
n ₂	30
v	74
y	7,5
w ₂	25



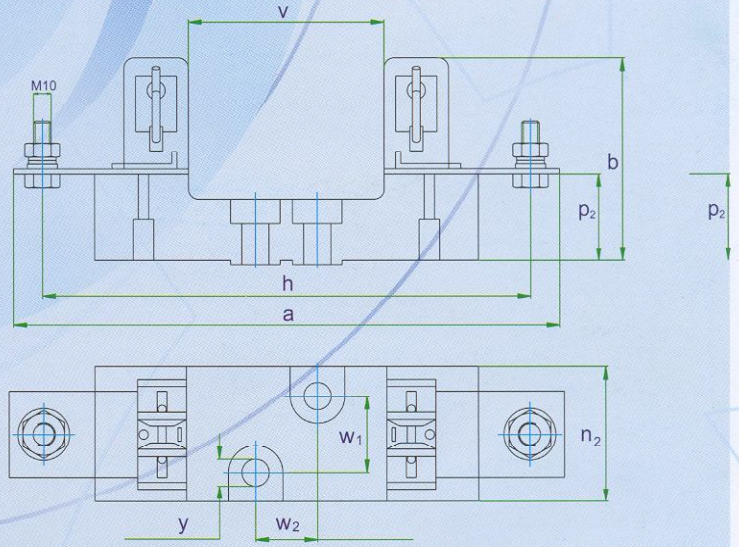
STEATİT (KER 221) STEATITE



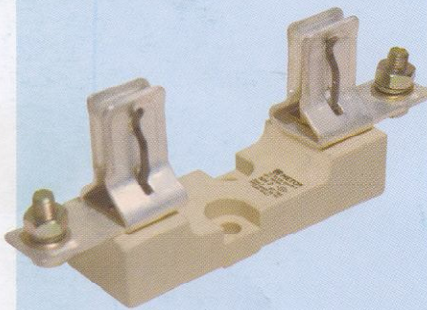
MT 165 NH 1 BOY

MT 165 HRC SIZE 1

a	198
b	79
h	175
n ₂	47
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



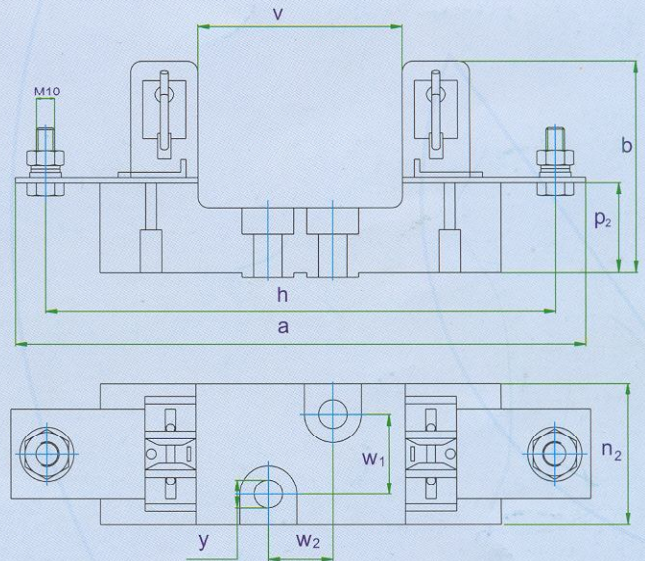
STEATİT (KER 221) STEATITE



MT 166 NH 2 BOY

MT 166 HRC SIZE 2

a	227
b	89
h	200
n ₂	47
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



NH BIÇAKLI SİGORTA ALTLIKLARI

HRC FUSE BASES

STEATİT (KER 221)

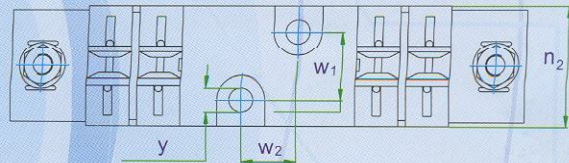
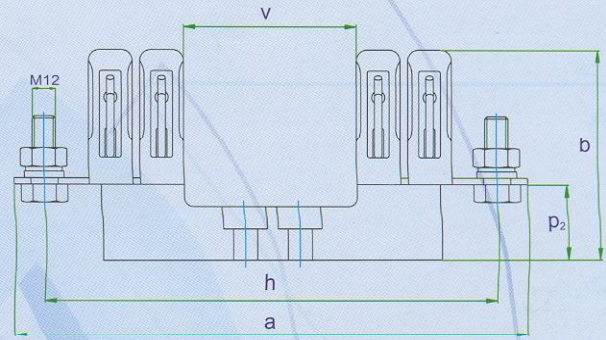
STEATITE



a	237
b	97
h	210
n ₂	50
p ₂	35
v	80
y	10
w ₁	30
w ₂	25

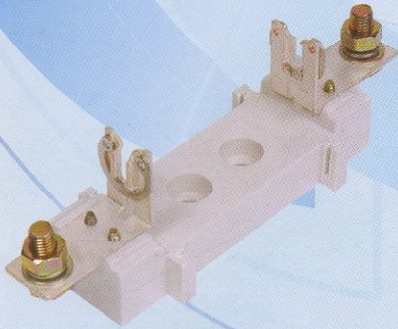
MT 167 NH 3 BOY

MT 167 HRC SIZE 3



CAM ELYAF

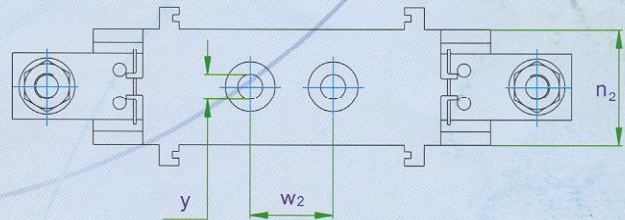
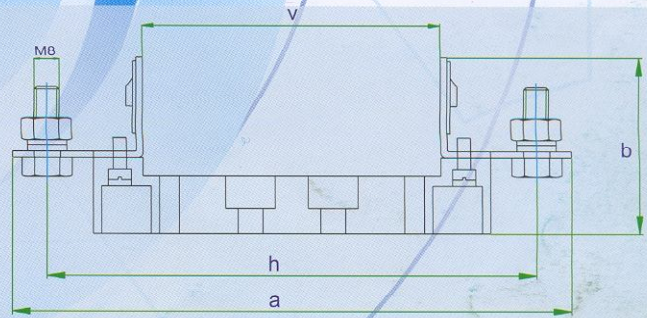
BMC



a	128
b	50
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25

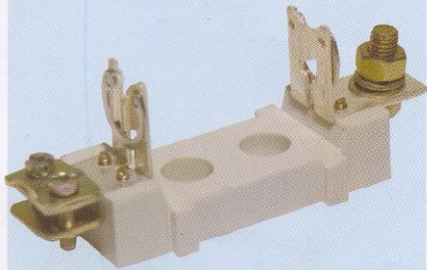
MT 170 NH 00 BOY

MT 170 HRC SIZE 00



CAM ELYAF

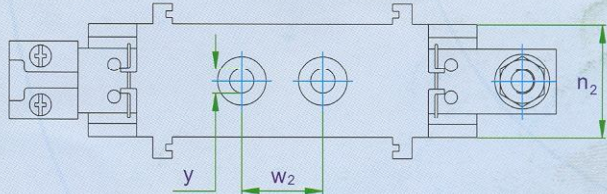
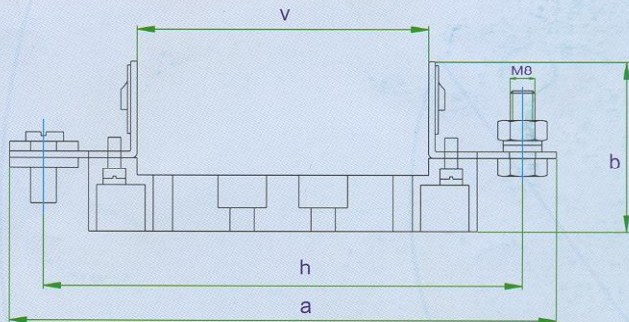
BMC



a	128
b	50
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25

MT 171 NH 00 TEK TARAFLI KLEMENSLİ

MT 171 HRC SIZE 00 TYPE 2



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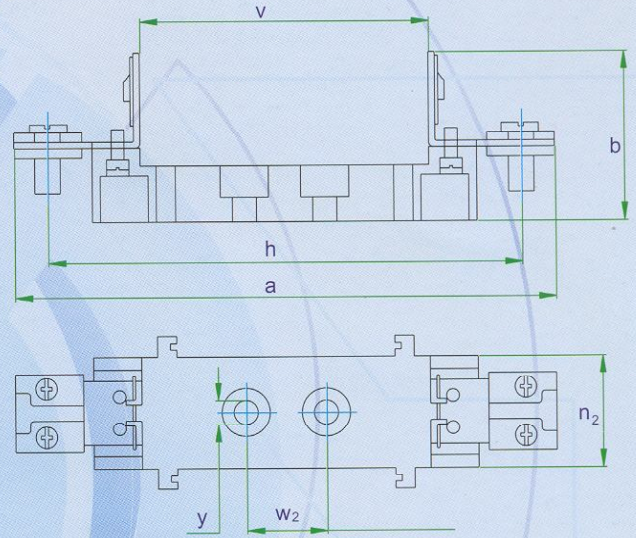
CAM ELYAF

BMC



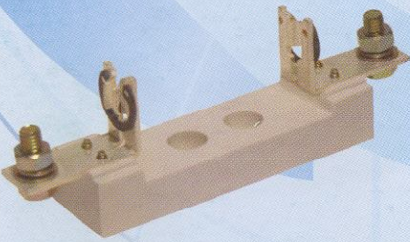
MT 172 00 BOY KLEMENSLİ
MT 172 HRC SIZE 00 TYPE 3

a	128
b	50
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25



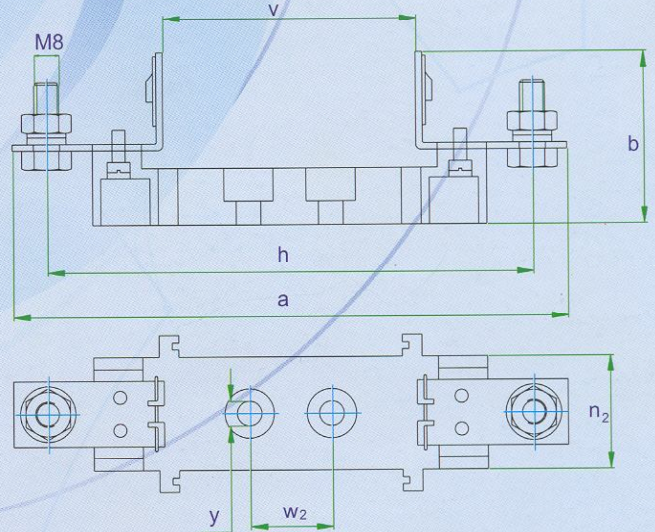
CAM ELYAF

BMC



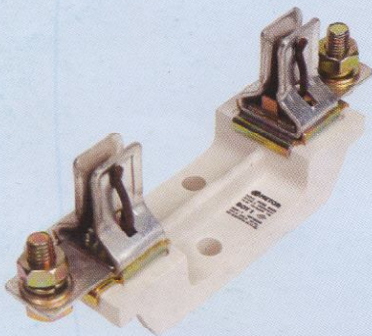
MT 173 NH 0 BOY MT 173 HRC SIZE 0

a	168
b	55
h	150
n ₂	35
v	74
y	7,5
w ₂	25



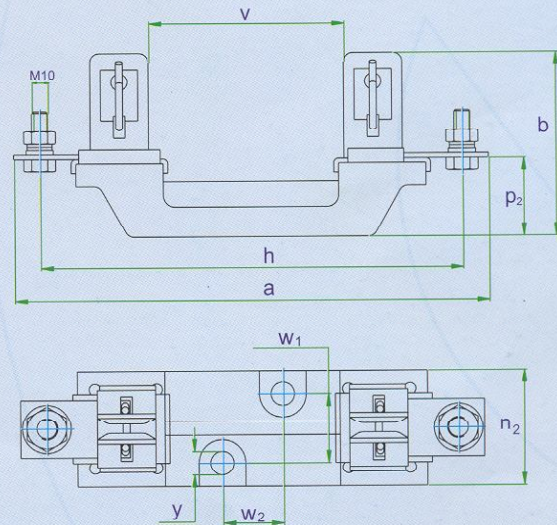
CAM ELYAF

BMC



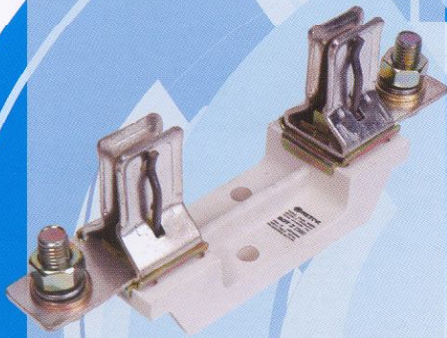
MT 174 NH 1 BOY MT 174 HRC SIZE 1

a	198
b	80
h	175
n ₂	50
p ₂	35
v	80
y	10,5
w ₁	25
w ₂	30



CAM ELYAF

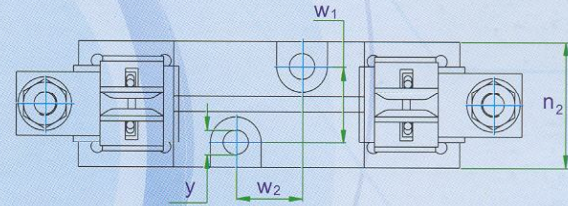
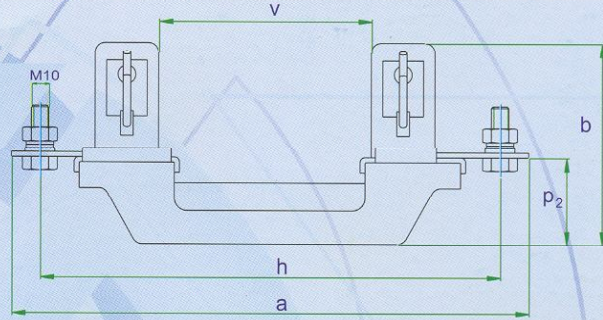
BMC



MT 175 NH 2 BOY

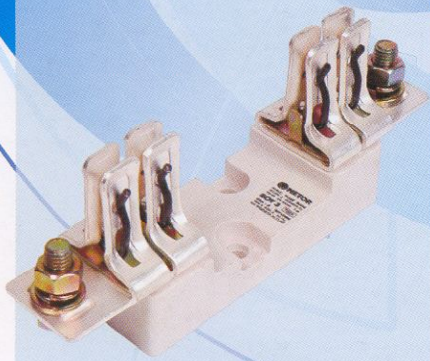
MT 175 HRC SIZE 2

a	227
b	90
h	200
n ₂	50
p ₂	35
v	80
y	10,5
w ₁	25
w ₂	30



CAM ELYAF

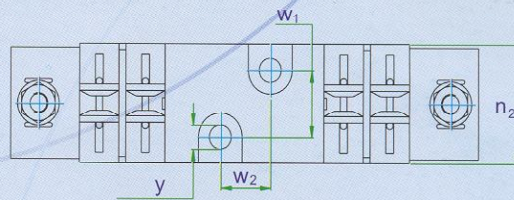
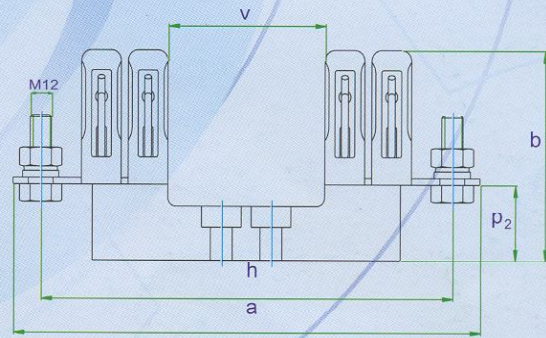
BMC



MT 176 NH 3 BOY

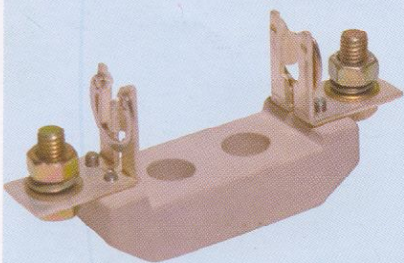
MT 176 HRC SIZE 3

a	237
b	97
h	210
n ₂	50
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



PORSELEN

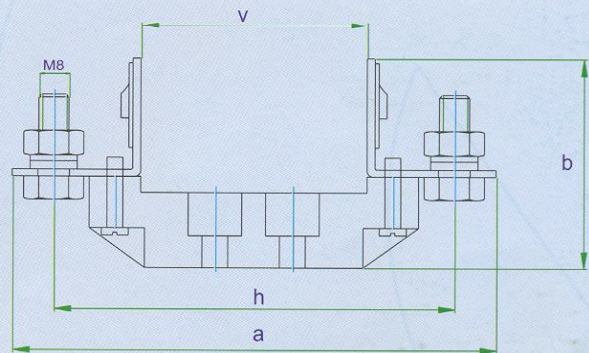
PORCELEIN



MT 100 NH 00 BOY

MT 100 HRC SIZE 00

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25



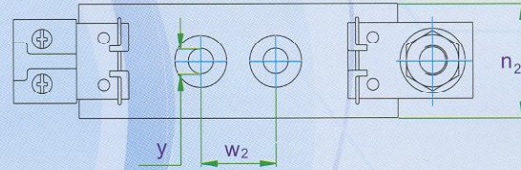
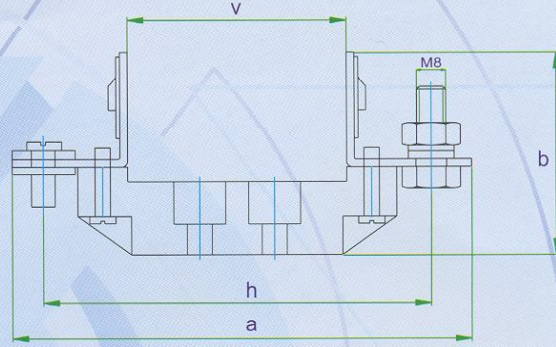
PORSELEN

PORCELEIN



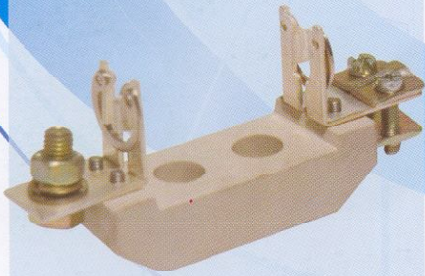
MT 101 NH 00 BOY KLEMENSLİ
MT 101 HRC SIZE 00 TYPE 3

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25



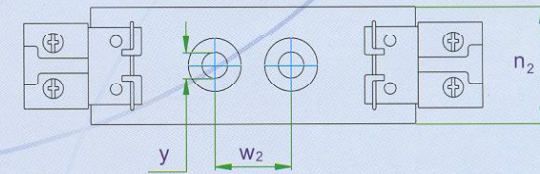
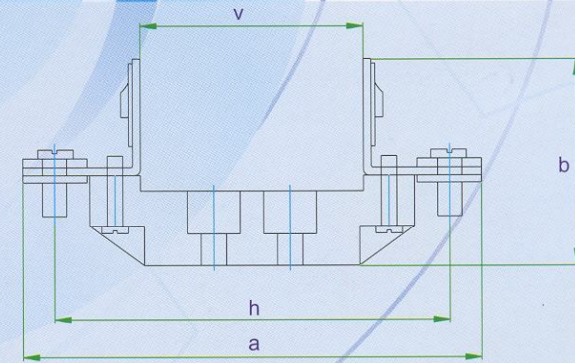
PORSELEN

PORCELEIN

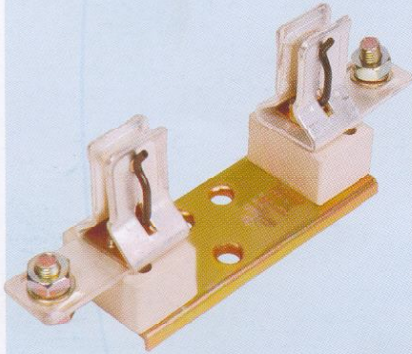


MT 102 NH 00 BOY TEK TARAFI KLEMENSLİ
MT 102 HRC SIZE 00 TYPE 2

a	128
b	54
h	100
n ₂	30
v	56,5
y	7,5
w ₂	25



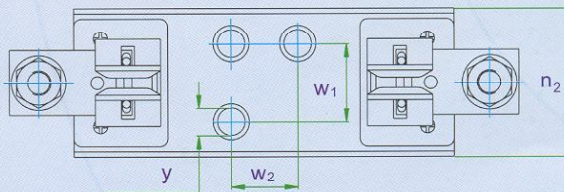
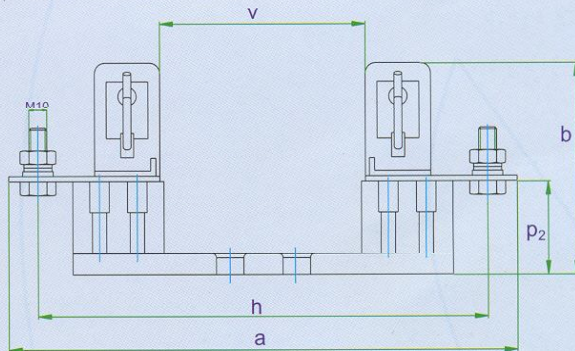
SAÇ ÜZERİ STEATİT (KER 221)
STEATITE WITH STEEL BASE



MT 103 NH 1 BOY

MT 103 HRC SIZE 1

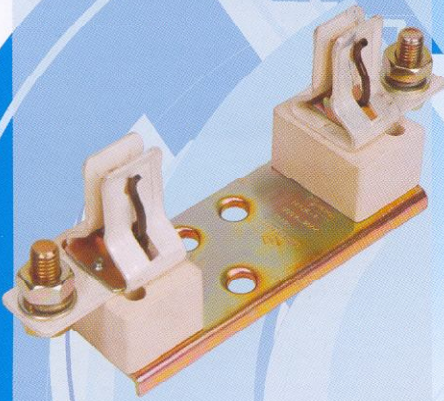
a	198
b	80
h	175
n ₂	57
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



NH BİÇAKLI SİGORTA ALTILIKLARI

HRC FUSE BASES

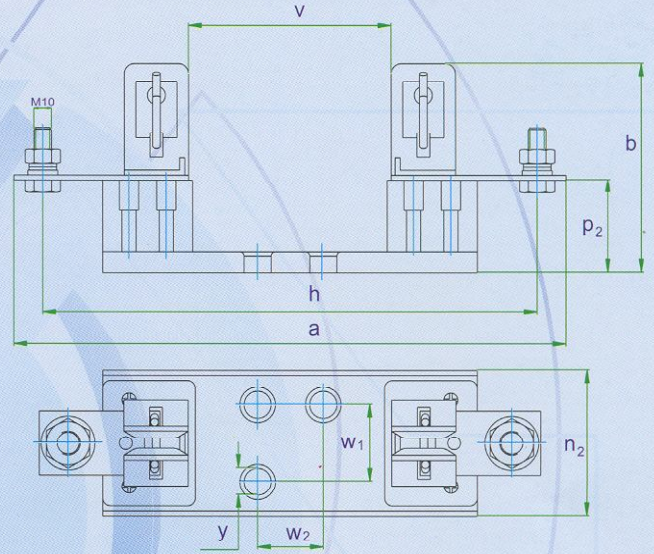
SAÇ ÜZERİ STEATİT (KER 221) STEATITE WITH STEEL BASE



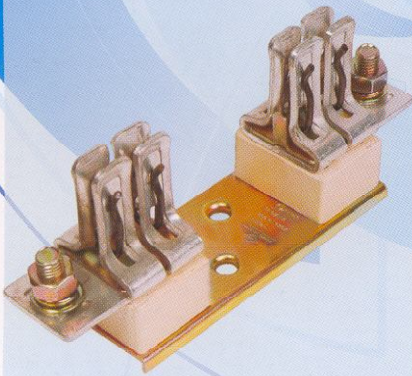
MT 104 NH 2 BOY

MT 104 HRC SIZE 2

a	227
b	92
h	200
n ₂	57
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



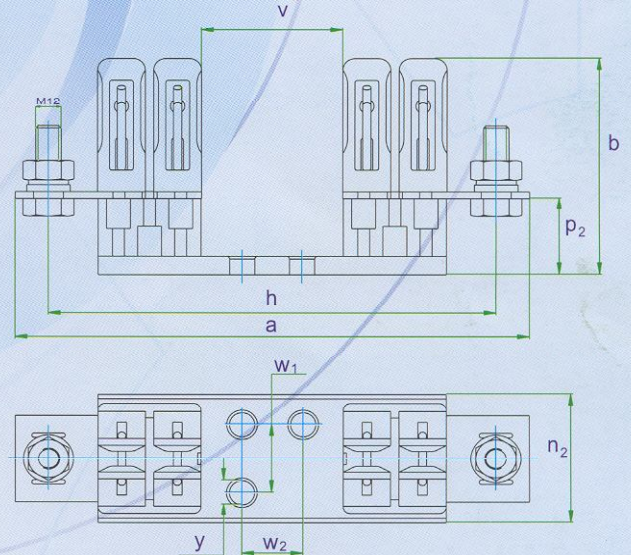
SAÇ ÜZERİ STEATİT (KER 221) STEATITE WITH STEEL BASE



MT 105 NH 3 BOY

MT 105 HRC SIZE 3

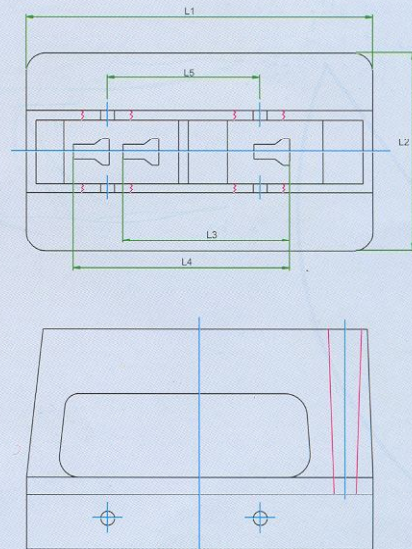
a	233
b	97
h	210
n ₂	65
p ₂	35
v	80
y	10,5
w ₁	30
w ₂	25



NH SİGORTA ELLİK HRC FUSE - HANDLE



L1	125
L2	71
L3	59
L4	78
L5	55



NH BİÇAKLI SİĞORTALAR / HRC FUSES

BOY/AMPER-SIZE/A	KOD NO-CODE	ADET-QUANTITY	AĞIRLIK-WEIGHT	ÖLÇÜLER - SIZES	ADET/KOLİ - QUANTITY PER BOX	KOLİ ÖLÇÜLERİ - BOX SIZES	KOLİ AĞIRLIĞI - BOX WEIGHT (kg)
00-16 A	MT 109	6	1000 gr	8x20x7 cm	45x6=270	61x38x26	47
00-25A	MT 110	6	1000 gr	8x20x7 cm	45x6=270	61x38x26	46,5
00-32A	MT 111	6	1000 gr	8x20x7 cm	45x6=270	61x38x26	46,5
00-40A	MT 112	6	1000 gr	8x18x7 cm	45x6=270	61x38x26	47,5
00-50A	MT 113	6	1000 gr	8x18,5x7 cm	45x6=270	61x30x26	47,5
00-63A	MT 114	6	1000 gr	8x18,5x7 cm	45x6=270	61x38x26	47,5
00-80A	MT 115	6	1000 gr	8x18,5x7 cm	45x6=270	61x38x26	47,5
00-100A	MT 116	6	1000 gr	8x18,5x7 cm	45x6=270	61x38x26	47,5
00-125A	MT 117	6	1000 gr	8x18,5x7 cm	45x6=270	61x38x26	47,5
00-160A	MT 118	6	1000 gr	8x18,5x7 cm	45x6=270	61x38x26	48
0-25A	MT 090	3	800 gr	10x12,5x6,5 cm	45x6=270	61x38x26	43
0-32A	MT 091	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43
0-40A	MT 092	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43,5
0-50A	MT 093	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43,5
0-63A	MT 094	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43,5
0-80A	MT 095	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43,5
0-100A	MT 096	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	44,5
0-125A	MT 097	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	43,5
0-160A	MT 098	3	800 gr	10x12,5x6,5 cm	53x3=159	61x38x26	44
1-25A	MT 125	3	800 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-32A	MT 126	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-40A	MT 127	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-50A	MT 128	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-63A	MT 129	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-80A	MT 130	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-100A	MT 131	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-125A	MT 132	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-160A	MT 133	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-200A	MT 134	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
1-250A	MT 135	3	1250 gr	13,5x16,5x6,5 cm	28x3=84	61x38x26	36
2-32A	MT 136	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	36
2-40A	MT 137	3	1800 gr	15x18x8 cm	20x3=60	61x30x26	36
2-50A	MT 138	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-63A	MT 139	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-80A	MT 140	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-100A	MT 141	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-125A	MT 142	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-160A	MT 143	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-200A	MT 144	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-250A	MT 145	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37
2-315A	MT 146	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	38
2-400A	MT 147	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37,5
3-300A	MT 148	3	1800 gr	15x18x8 cm	20x3=60	61x38x26	37,5
3-315A	MT 149	3	3000 gr	15,5x22x9,5 cm	16x3=48	61x38x26	47
3-400 A	MT 150	3	3000 gr	15,5x22x9,5 cm	16x3=48	61x38x26	47
3-500A	MT 151	3	3000 gr	15,5x22,5x9,5 cm	16x3=48	61x38x26	48
3-630A	MT 152	3	3000 gr	15,5x24x10,5 cm	14x3=42	61x38x26	43

NH ALTILIKLAR / HRC BASES

00	MT 100	3	750 gr	10x12,5x6,5 cm	62x3=186	61x38x26	41,5
0	MT 173	3	750 gr	10x12,5x6,5 cm	62x3=186	61x38x26	41,5
1	MT 103	3	1850 gr	12,5x20x8,5 cm	24x3=72	61x38x26	45
2	MT 104	3	2250 gr	13x22,5x9,5 cm	14x3=42	61x38x26	32,5





METOP®

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