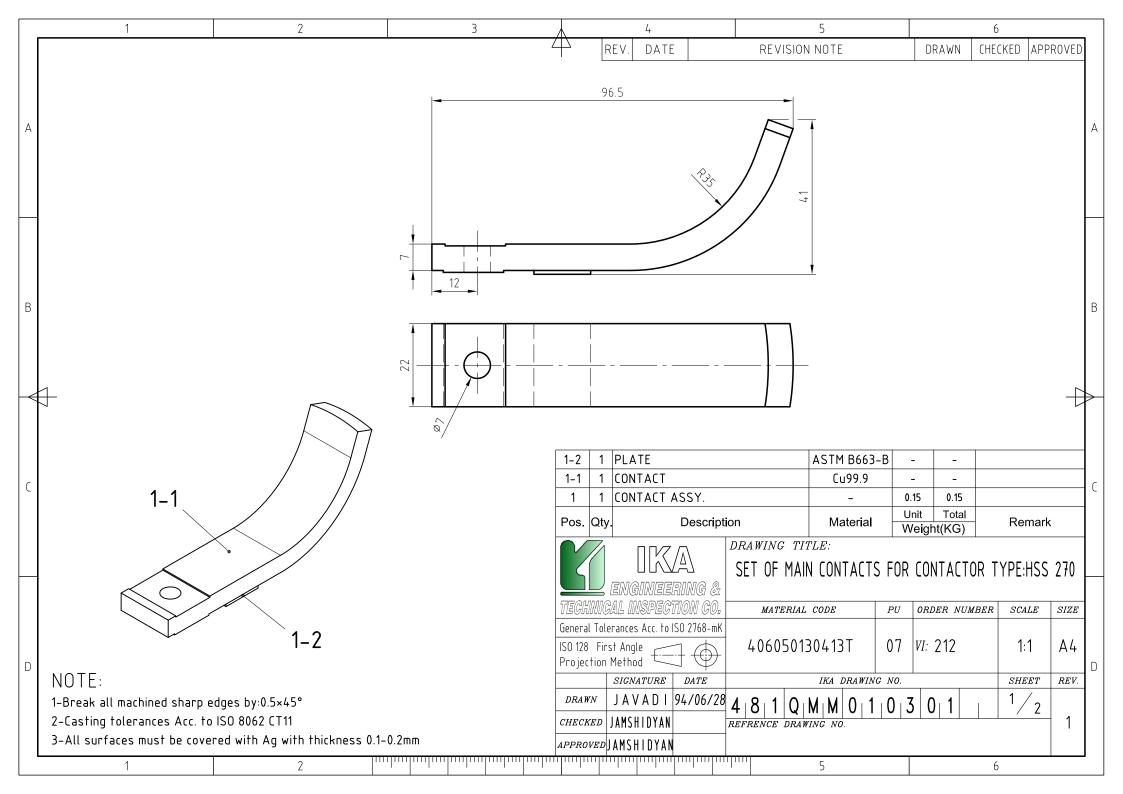
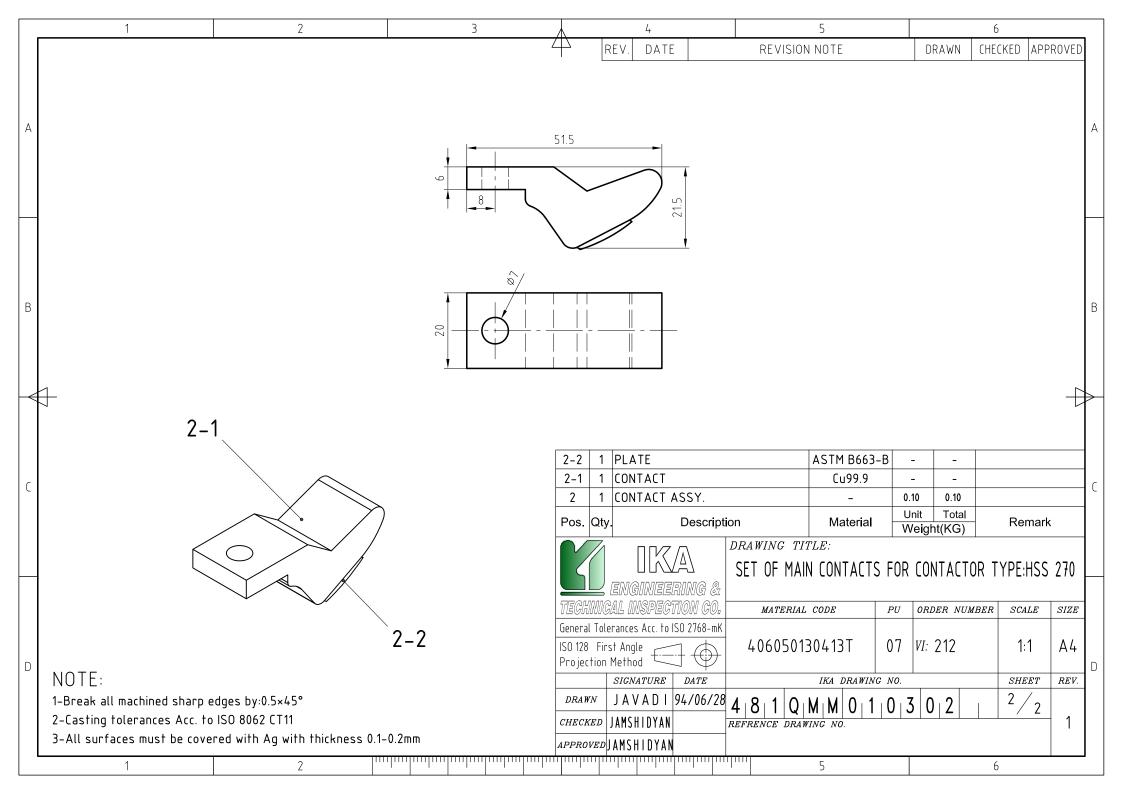


Description: CONTACTOR

Material Code	406050130413T	PU	7				
ТҮРЕ		ZONE	41				
Drawing No.	G.C	ITEM	01M708				
Drawing .Pos		QCTM No.	RDSI406050130413				
MANUFACTURE	AEG						
APPLICATION	N series contactors are particularly suitable for heavy duties and for services where a high degree of reliability is required furthere more They allow for a wide selection in the number and type of main pol Anti-arc devices, auxiliary contacts and control voltages. Contactors N series can be fitted with the following type:V,S,FS. Plate=ASTM B663-B						
MATERIAL	Plate=ASTM B663-B Contact=Cu99.9	ces where a high degree of reliability is required furthere more allow for a wide selection in the number and type of main polarc devices, auxiliary contacts and control voltages. actors N series can be fitted with the following type:V,S,FS. E=ASTM B663-B act=Cu99.9 Smm Smm Smm Somm					
DIMENSION	B=13mm C=95mm D=170mm E=45mm Other dimension refer to D	eries contactors are particularly suitable for heavy duties vices where a high degree of reliability is required further by allow for a wide selection in the number and type of mai-arc devices, auxiliary contacts and control voltages. Intactors N series can be fitted with the following type:V,Sete=ASTM B663-Betact=Cu99.9 I3mm I70mm I5mm Icer dimension refer to Drawing No.481QMM010301&481QI					
Ith (A)	270						
Ich (A)	7000						
MAX.OPERATIONAL POWER	164 kw						
MAX.OPERATIONAL CURRENT	lem = 250 A						
WORKING PRESSURE	1 bar						
WORKING TEMPERATURE	Max : +50 °C Min: -10 °	С					





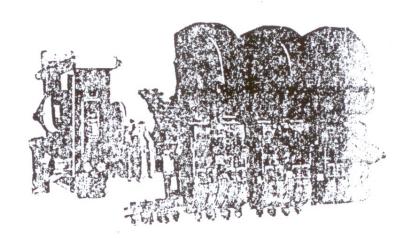


AEG - TELEFUNKEN Gruppo Italia

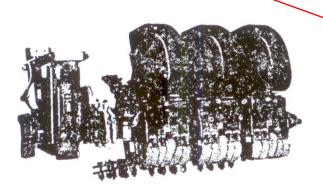
Microelettrica Scientifica BAR TYPE CONTACTORS







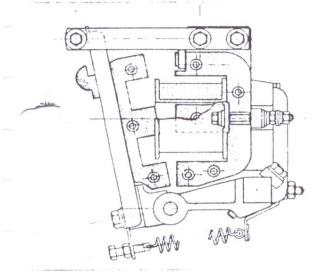
N SERIES CONTACTORS



CONSTRUCTION CHARACTERISTICS

Due to their strong construction and highly efficient perfornce, the N series Contactors are particularly suitable for avy duties and for all services where a high degree of reiability is required. Furthermore, due to the bar assembling system, they allow for a wide selection in the number and type of main poles, anti-arc devices, auxiliary contacts and control voltages.

Iney also allow for very easy inspection and servicing with immediate access to all component parts, without removing the contactor or disconnection of the electrical circuit. All metal parts, including bolts and springs are oxidation proofed and all insulating materials are made of anti-fungus synthetic fibres.



CONTROL CIRCUIT

The laminated magnetic circuit, in the moveable as well as the fixed part, is made with three limbs in which the coil is boused.

The supply can be in AC or DC with economy resistor, and a unique design provides very strong attraction with low coil consumption and very regular movement.

Special care has been applied in the design of the magnetic circuit, to assure that the closing and opening of the contacts is performed in a single continuous movement, without vibration or bounce, even with relatively unstable voltages.

tropicalised.

Depending upon their use, type N contactors can be fitted with the following type of poles:

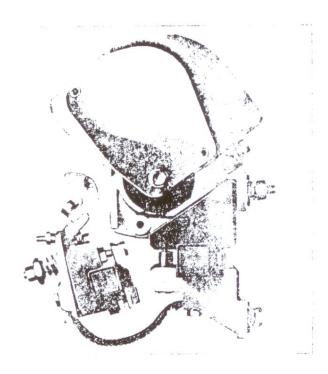
Quiet continuous operation is also maintained even with

drops in voltage, whilst still maintaining strong pressure on contacts. Coils are safely constructed of choice materials,

insulated according to the latest standards and are normally

- "V", without magnetic blow-outs and without arc chutes, for switching at no-load, or under resistive load. Suitable for control of starting resistors.
- "S", with magnetic blow-outs and arc chutes, for switching under inductive load up to 10 times the rated current with voltage up to 500 V. Suitable for control of squirrel-cage motors.
- "FS," with special magnetic blow-outs, deflectors and arc chutes with spark arresting sheets for switching under inductive load up to 10/20 times the rated current, and voltages above 500 V. Suitable for control of AC and DC motors and as line circuit breakers.

For all above types, the pressure and the contacts gaps are widely adjustable so realising the possibility of recovering the back-lash produced by the normal wear of contacts



CONTROLS OF MAIN POLES

The poles of the type N contactors (namely the pole of devices, pressure springs, shape of contacts the pole of eart's dynamics and arc chutes) have been carefully desired so that the following prerogatives are granted.

- Very low contact bounce;
- Relative brushing of the contact's surfaces with the resulting self-cleaning effect;
- Low probability of arc re-priming, even with current voltage and inductance particularly high;
- Regualr wear of the contacts.

The poles of the type N contactors are normally fitted with very hard copper contacts and the application of sintered contacts is not needed. However, depending upon the application, the following types of contacts are recommended:

- Copper contacts: for every purpose with breaking current up to 6-8 times Ith and voltage up to 600 V.
- Silver contacts: for a low number of operations; low voltage and low breaking current. Suitable where a very low and constant contact resistance is required.
- Sintered contacts in silver-tungstan; for an extremely high number of operations or for voltages above 600 V and with high breaking current, where a low contact resistance is not needed.

AUXILIARY CONTACTS

Like the main contacts, the auxiliary contacts can be easily varied to meet most requirements. Three types of auxiliary contacts are available:

- Type P single contact instantaneous, mounted on the axles, with adjustable contact gap and pressure and with contact elements in silver; N/O (normally open), N/C (normally closed) and C/O (changeover) executions are available.
- Type B set of 10 instantaneous contacts (5 N/O + 5 N/C), double interruption moulded type, mounted together on a single frame and simultaneously controlled. Each set type B takes the same space as two type P contacts.

Type L - same as type B but with 6 aux. contacts. Each of them convertible in N/O as well as N/C type and with possibility of early or late operation.

Type T - timing device with delay on closing as well as opening. The C/O contact is of the quick action type with a rating of 5A and with pneumatic or clockwork adjustable control. Each device type T is fitted with up to two C/O contacts and takes the space of two contacts type P.

Moreover, all the contactors of the sizes 270A and larger can be fitted with auxiliary poles rating 46A or 60A with or without magnetic blow-outs and N/O or N/C type.

Ratings of the auxiliary contacts

(Table n 1)

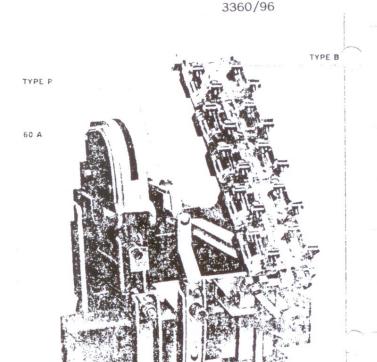
	Contactor		Rated curr.			g capa osφ =		Breaking capacity in DC L/R = 30ms				
	Type ~ 5.5 N L6 +N60 170 +N190 N270+N650 1800+N3000	Туре	{A}	110V	220V	380V	500V	48V	110V	220V		
N	Type ~ 5.5 N 46 +N60 170 +N190 N270+N650 1800+N3000	P B/L	5	5	3	3		2	1	0.5		
4.	70 +N190	P B/L	10	20 10	15	10	2 1.5	5	3	2		
15	Type ~ 5.5 NU6 +N60 170 +N190 N270+N650	P BL	10 10	20 10	15 8	15	3 1.5	7	5 2	2		
: ,	800+N3000	P B/L	15 10	20 10	20 3	15	5	8	5 2	2		
٨	Type ~ 5.5 ~ 1.50 + N60 1.70 + N190 1.270 + N650	T	5	5	3	3		2	1	0.5		

OBRESTONDAMOL TO A

The N series contactors are constructed and designed according to the Standards CEI 252 and to the corresponding RECOMMENDATION of the INTERNATIONAL ELECTROTECHNICAL COMMISSION - IEC 158-1.

Moreover they have the official approval of the ITALIAN SHIPPING REGISTER (R.I.Na.) and meet the requirements of the LLOYD'S REGISTER OF SHIPPING, the AMERICAN BUREAU OF SHIPPING and the BUREAU VERITAS (French shipping Register).

They also meet the requirements of other international Standards such as ASE (Switzerland), VDE (Germany), CSA (Cariada), NEMA (USA) and BSI (Gt. Britain).



TORK OAL HIP OF OCK

All the contactors of the N series are mechanical interiockable two by two, between types of the same size and number of poles as well as between types of different size and number of poles. The mechanical interlock form the revelled tor contactors mounted one above the other with a directly on the electromagnets for the contactors of the bigger sizes the call interlock works by means of a rod connected with a row veable axies. This type of mechanical interlock is admissible for the clearance as well as the distance of the left with the side by side. Moreover, interlocks among and the two contactors can be investigated on request.

All N series contactors can be supplied in a white-ave, le execution. This execution allows the three productions and «Out of Service», with mechanism because of trical and contion.

The connection of the main poles is made by spling claribs safely designed, that take into account the focus of fects as well as the electrodynamic stresses imposes.

The control circuit and the auxiliary contacts are the order that through brush contacts that move together with the manner together.

If necessary, additional contacts can be connected to plugin contacts, so that when the contactor is in the contact of pervice» position, all servicing or the substitution of the complete contactor, can be made without disconnecting the main and auxiliary wiring.

ELECTRICAL CHARACTER &

Geral Ratings

The table below gives the general performances and ratings of the contactors, with reference to the requirements of Standard CEI 252 and the Recommendation IEC 158-1. The A.C. breaking capacity given is the R.M.S. value of the symmetrical component of the current and the making capacity given is the peak value of the total asymmetrical current.

							Breaking	capacity			Making	С	onsumpti	on of co	ls	-	ration me	Mech.	
	Contac- tor		lth		A.C.	coso -	0,5		L/R = 15	ms	Ich	AC	[VA]	DC		•	sec.)	in million operations	10
	Type		[A]	. 4	10a 1	750 V	1000 V	220 V	440 V	660 V	[A]	Pick-up	Holding	Pick-up	Holding		Opening		
	M 55 N 46 N 60 N 85 N 125		46 60 85 125	+	900 1200 1600 2100	400 500 700 1000	350 400 600 900	1000 1200 1700 2500	500 650 1000 1500	400 500 800 1000	1500 2000 2750 3500 4200	220 220 350 450 450	38 38 50 60	100 100 110 130 130	10 10 15 15	28 28 26 23 23	10 10 13 13	15 15 15 15 15	
۱	N 190 N 270	1	190 270	23	2500 4300	1600 2500	1300 2000	3000 4500	2000 3000	1400 2500	7600	1300	110	180	12 12	30 30	18 18	15 15	
	N 350 N 550 N 650 N 800 N 1000	the section or commercial section of the	350 550 650 800 1000	1	4800 6000 8000 9500 12500	3000 4500 5500 6500 8000	2500 3900 4500 6000 7000	5000 7000 9000 10000 12000	3500 5000 6000 7000 9000	3000 4000 5000 6000 7500	8500 10000 12000 16000 21000	1500	110	300 300 650 650	20 20 30 30 50	65 65 80 80	15 15 16 10	15 10 10 10 10	
	N 1250 N 1600 N 2000 N 3000		1250 1600 2000 3000 4000 6000	•	15000 20000 20000 30000 35000 40000	10000 15000 15000 15000 20000 20000		16000 25000 30000 35000 40000	12000 16000 20000 25000 30000 35000	10000 12000 15000 18000 20000 20000	35000 50000 50000		-	1000 1000 1500 1500 2500	50 50 80 80	95 95 90 90	11 11 10 10	10 10 10 10 10	

VERLOAD A. ACTORS

The contactors can withstand for short time durations, current much higher than the rated; in this instance two different phenomena must be considered; the thermal and the electrodynamic.

Dynamically the contactors can withstand current peaks to a limit where repulsion of the contacts may occur.

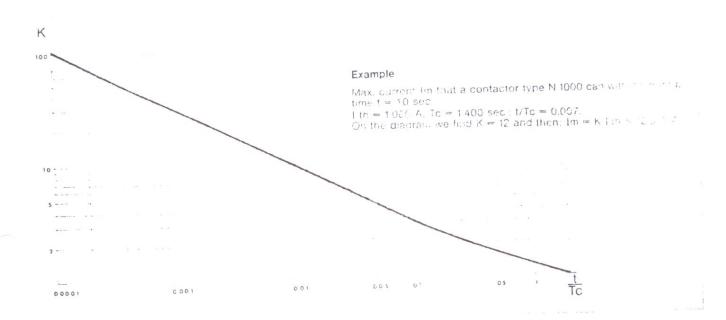
The current which causes the repulsion of the contacts could be higher than the making capacity of the contactor as it is considered that this phenomenon arises when the contactor is already closed and operating.

Therefore, the electrodynamic stress in this case is not superimposed to the mechanical bounce effect that can arise during the closing operation which is the principal cause of the contacts melting

Of course, the intensity of this dynamic current must also be thermally tolerable for the contactor and the clore, in the table below, the values "Id" of the maximum acceptable dynamic currents are given providing that their distributes no more than 100 ms.

From the thermal point of view the intensity of the tolerable evenional is inversely proportional to the direction and depends essentially upon the time constant To still the constant up curve of the contactor when its rated current is applied. The diagram below gives the ratio t/To (who have the couration of the overload) and the factor K which who make the to the nominal current of the contactor, determined the mensity of the tolerable overload.

16 6	Officacis menti	.9															3)	
	Contactor Type	N HIL	46	60	85	125	190	270	350	550	650	800	1000	1250	1600	2000 40	51.0	
Id	Contactor Type (Peak val.)	KA	2.5	2,5	3.5	4,5	5.5	9	11	13		1500	1400	1500	1347		1	
To		Sec	1500	1500	2150	1200	1500	2150	1300	200	1500	1500	1.400	1300				



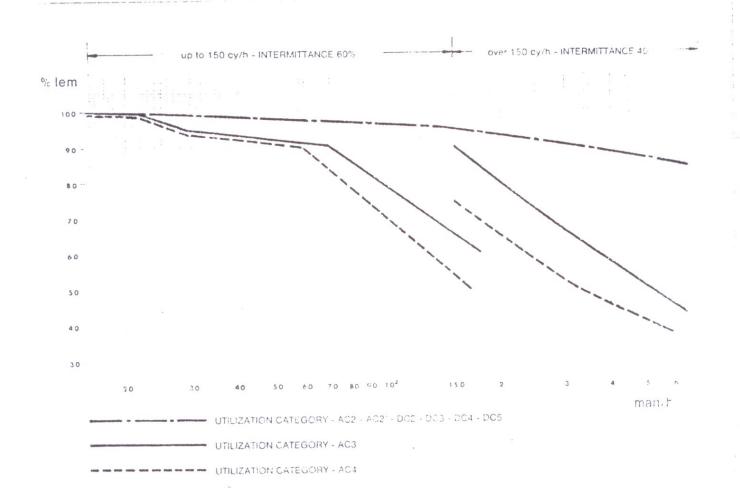
BATINGS FOR CONTROL OF MOTORS

1				AC	motors					D.C. m	notors
1.16	dization cated	iony AC2 & AC	3			L	Jtilization ca	ategory AC4		Max opera	ational curr
Maximum operational					perational	-	Max. o	perational pow	er [kw]	DC2-DC3	DC4-DC5 220V-1 Pole
current [em (A)	220 V	380 V	500 V		Tem [4]		220 V	380 V	500 V	600V-2 Poles	600V-2 Poles
43	12	21	27		40		12	20	24	43	40
56	16	28	36		50		15	25	30	56	50
80	23	40	52		75		22	38	45	80	75
110	32	55	72		95		28	48	57	110	95
180	52	90	118	1	170	:	50	85	100	180	170
250	72	125	164		210	1	61	105	124	250	210
320	92	160	210		270		79	136	160	320	270
500	145	250	328	1	450		130	227	270	500	450
600	173	300	394		550		160	278	330	600	550
750	220	380	500		650		190	330	390	750	650
900	260	450	590		800		235	405	480	900	8.70
1100	320	550	720	1	1000		300	510	600	1100	1000
1400	400	700	920		1250	1	365	630	746	1400	1250
		900	1180		1600		470	810	960	1800	1690
1	i	1250	1640		2250		660	1140	1350	2500	2250
	Maximum operational current Jem [A] 43 56 80 110 180 250 320 500 600 750 900 1100	Maximum operational current Jem (A) Max. Operational 220 V 43 12 56 16 80 23 110 32 180 52 250 72 320 92 500 145 600 173 750 220 900 260 1100 320 1400 400 1800 520	Maximum operational current Jem (A) Max. operational power operational power operational current Jem (A) 220 V 380 V 43 12 21 56 16 28 80 23 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 400 450 450 400 400 700 1800 520 900 900 900 900 900 450 400 700 1800 520 900	operational current M2X Special state current Jam (A) 220 V 380 V 500 V 43 12 21 27 56 16 28 36 80 23 40 52 110 32 55 72 180 52 90 118 250 72 125 164 320 92 160 210 500 145 250 328 600 173 300 394 750 220 380 500 900 260 450 590 1100 320 550 720 1400 400 700 920 1800 520 900 1180	Maximum operational power [kw] Max. operational power [kw] Operational current Jem (A) 220 V 380 V 500 V 43	Maximum operational current Jem (A) Max. operational power [kw] Maximum operational current Jem (A) 43 12 21 27 40 56 16 28 36 50 80 23 40 52 75 110 32 55 72 95 180 52 90 118 170 250 72 125 164 210 320 92 160 210 270 500 145 250 328 450 600 173 300 394 550 750 220 380 500 650 900 260 450 590 800 1100 320 550 720 1000 1400 400 700 920 1250 1800 520 900 1180 1600	Maximum operational current Jem A	Maximum operational current Jem (A) 220 V 380 V 500 V Jem (A) 220 V 380 V 500 V Jem (A) 220 V 380 V 500 V Jem (A) 220 V 220 V	Maximum operational current John (A) 220 V 380 V 500 V 220 V 380 V 380 V 500 V 220 V 380	Utilization category AC2 & AC3 Utilization category AC4 Maximum operational current Jem (A) Max. operational power [kw] Max. operational current operational current Jem (A) Max. operational power [kw] 43 12 21 27 40 12 20 24 56 16 28 36 50 15 25 30 80 23 40 52 75 22 38 45 110 32 55 72 95 28 48 57 180 52 90 118 170 50 85 100 250 72 125 164 210 61 105 124 320 92 160 210 270 79 136 160 500 145 250 328 450 130 227 270 600 173 300 394 550 160 278 330 750	Maximum operational current Jum AC Max operational current Jum AC Maximum operational current Jum AC DC2-DC3 220V-1 Pole DC3-DC3 220V-1 Pole DC4-DC3 DC

The above ratings are the maximum permissible for normal duty with reference to the making and breaking capacity stated by the I.E.C. standard N. 158-1.

The maximum operational current lem is referred to a class

of intermittant duty up to 20 operating cycles per hour. For intermittant duty higher than 20 cy/h, the curves below give the corresponding derating.



3360/99

Electrical endurance in million-operation when Ie = Iem

Utilization	Type of		0	% of it	nchin	g op	eratio	n	
category	contacts	0%	5%	10%	20%	40%	60%	80%	100%
AC1 - DC1	Copper	2,5	_		_		_	_	
	Sintered	3		1				1	i nem
AC2 - AC3	Copper	2							
DC2 - DC4	Sintered	2,5							
AC2'	Copper	2	1,8	1.7	1,5	1.2	1	0,9	0,8
DC3 - DC5	Sintered	2,5	2,2	2,1	1,8	1,5	1,2	1.1	11
AC4	Copper	2	1,5	1.2	0,9	.0,6	0.5	0.4	:0,3
ACA	Sintered	2,5	1,8	1.5	1.1	8,0	0.6	0.5	0.4
lem/le	1 . 1	,5	2	2	,5	3	4		5
K	1 1	,7	2,5	3	,5	4,5	7		10

ELECTRICAL ENDURANCE OF MAIN CONTACTS

The maximum number of operations the main contacts can perform before their replacement is necessary, in practise is not affected by the class of intermittant duty but, substantially depends upon the value of the current that the contacts have to break and consequently it is strictly in relation with the utilization category and the percentage of inching operations. With reference to the maximum operational current lem of the contactors (see table No. 4), it is possible to determine the medium endurance of contacts as shown in the table n. 5.

For the contactors type N 1600 to N 3000 the duration concerns only the arcing contacts as on these units the main contacts are separated and not involved in the breaking of the current.

Therefore, in this case the endurance of the main contacts is pratically unlimited.

As already mentioned the endurance shown in the table is related to the maximum operational current lem; if the contactor is used at lower ratings, the coefficient K must apply.

JACK-UP PROTECTION STIMBLE. FUSIES

For applications in which fault currents larger than the contactor's breaking capacitxy, or with peak values higher than those which cause the repulsion of the contacts are experienced, protection is entrusted to H.R.C. fuses that do not operate with currents within a limit which the contactor can withstand but that, on the contrary, whith higher currents grant

	Contactor Type N		46	60	85	125
١.	Max. Fuse	А	50	63	100	125
	Rating - [Amps.]	В	80	100	125	160

A = Full protection B = Possibility of contacts welding

the full protection or a limited damage of the contactor itself. The table belove shows for the different types of contactor the corresponding size of fuses recommended to obtain respectively the full protection or a damage limited to the contacts' welding.

100							7 .15 - 17, 61
190	270	350	550	650	800	1000	1250
160	225	250	355	425	500	€	1(00
200	300	355	500	630	800	1000	12.0

OVERALL DIMENSIONS ARE WEIGHT

overall dimensions are given below and refer to standard untactors up to 3000 A. and 660 V.

For higher ratings in current, as well as in voltage or special executions, please ask our Technical Department.

The length of the contactors, i.e. the distance between fastening bolts, depends upon the composition of the unit as follows:

- Number of poles: 1 2 3 or 4 poles.
- Control circuit in A.C. or D.C.: the contactors of size over the N 350 are always fitted with D.C. coils; if A.C. control is required, a selfcontained rectifier unit is available.
- Number and type of auxiliary contacts; as already described three types of auxiliary contacts are applied.
 - Type P: single contact adjustable N/C. N/C or C.O.
 - Type B: set of 5 N/O + 5 N/C contact
 - -- Type T: Timed device with two delayed contacts.

The minimum clearance Bm between two contributors of conted one above the other corresponds to the contributors of necessary for mechanical inter-locking. The distance is a the minimum clearance between the contactor and shield trame. (See drawings at page 8 and 9 for details)

		-	111	
. +	14	7.1	(Kg.)

(0 /															
Type	N 46	N 60	N 85	N 125	N 190	N 270	N 350	N 550	N 650	N 800	N 1000	N 1250	N 1600	N 2000	N 1
1 pole	1,3	1,5	2.7	2 9	4.2	10.5	11.4	15.5	16.5	22	23	24	. 26	21	۸,
2 poles	1,7	2	4	4.4	6,1	145	15,6	21.5	23	34	36	38	48	£.3	77
 3 poles	2,3	2,5	5,1	5.8	8.8	190	19.5	27	29	50	53	56	65	7.4	98
 4 poles	2,7	3	6	7	11	22,5	24	33	35	63	68	72	85	95	125

3360	111	00
3.301) / 1	

stance "	A" between the fastening bolts (mm.)					336	0/10)O (Tat	ole n. 8	3)
ontactor	Augilianu angtagta prangamont		NTROL		TROL		OLES		TROL	
Type	Auxiliary contacts arrangement	A.C	D.C.	A.C.	D.C.	A.C	D.C.	A.C.	_D.C	
	1P / 2P	155	185	205	205	220	260	200	200	
	3P / 1T	185	185	205	230	230 260	260 260		290 310	
N 46	4P / 1P+1T	185	205	230	260	260	290		310	
N 60	5P / 2P+1T	205	230	260	260	290	290		310	
	6P / 3P+1T / 2T	230	230	260	290	290	310			1
1	7P / 4P+1T / 2T	230	260	290	290	310	-	_	_	
	0									1
1	0 1P	200	200	250	250	300	300		350	
	2P / 1T / 1B	200	250	250	300	300	350		400	
N 85	3P / 1P+1T / 1P+1B	250 250	250 250	300	300	350	350		400	
N 125	4P / 2P+1T / 2P+1B / 1B+1T	250	300	300	300 350	350 350	350 400	400 400	400	
	5P / 3P+1T / 1P+2T / 3P+1B / 3P+1T+1B	300	300	350	350	400	400	450	450	
1	6P / 4P+1T / 2P+2T / 3T / 4P+1B / 1P+1T+1B	300	350	350	400	400	450	450	-	
	AND				-	:		- 400	**	1
	0	200	200	250	300	300	350	400	400	
	1P	200	250	300	300	350	350	400	400	
190	2P / 1T / 1B 3P / 1P+1T / 1P+1B	250	250	300	300	350	400	400	450	
190	4P / 2P+1T / 2P+1B / 1B+1T	250	300	300	350	400	400	450	450	
1	5P / 3P+1T / 1P+2T / 3P+1B / 3P+1T+1B	300	300	350	350	400	400	450	450	
	6P / 4P+1T / 2P+2T / 3T / 4P+1B / 1P+1T+1B	300 300	300 350	350 350	350	400	450 450	4-0	_	
		. 300	330	330	400	450	450		_	•
	0	250	250	300	300	350	400	450	450	
N 270	1P	250	250	300	350	400	400	4 5 0	500	
i	2P / 1B / 1T	. 250	300	350	350	400	450	500	510	
1 350	3P / 1P+1B / 1P+1T	300	300	350	400	450	450	5.0	5	
	4P / 2B+2T / 2P+1B / 2P+1T / 1B+1T 5P / 1P+2B / 1P+2T / 3P+1B / 3P+1T / 1P+1B+1T	300 350	350 350	400	400	450 450	450	500 550	550 550	
	0	250	250	350	350	450	450			
	1P	250	300	350	400	450	450	55) 58.		
N 550	2P / 1B / 1T	300	300	400	400	450	500	€		
N 650	3P / 1P+1B / 1P+1T	300	350	400	400	500	500	60		
	4P / 2B / 2T / 2P+1B / 2P+1T / 1B+1T	350	350	400	450	500	550	6.0.		
	5P / 1P+2B / 1P+2T / 3P+1T / 1P+1B+1T	350	350	450	450	500	550	_		
	0	30	iń	40	0	50	0			
N 800	1P	33		40		50		6.1		
4 600	2P / 1B / 1T	25	5	45		55		٤		
1000	3P / 1P+1B / 1P+1T	35	iC.	45		55		65,		
	4P / 2B / 2T / 2P+1B / 2P+1T / 1B+1T	40	C	500	0	60				
	5P / 1P+2E / 1P+2T / 3P+1B / 3P+1T / 1P+1B+1T	40	0	500)	60)	1.1		
	0	30	0	400)	55	0	€ :	,	
	1P	30	0	450)	5.5	0	€. 0	1	
1 1250	2P / 1B / 1T	35	0	450)	550	0	€		
	3P / 1P+1B / 1P+1T	35		500)	60	0	7.77		
	4P / 28 / 2T / 2P+1B / 2P+1T / 1B+1T 5P / 1P+2B / 1P+2T / 3P+1B / 3P+1T / 1P+1B+1T	40		500		600		70		
	5.7 (1.1207 (1.1217 SPT10 / SPT117) PT10+11	40	0 .	500) - · ·	650		7 (0)		
	0	30	0	450)	600)	810		
1600	1P	35	0 :	450)	600)	ξ		
.000	2P / 1B / 1T	35	0	500)	600)	8 70		
2000	3P / 1P+1B / 1P+1T	40	0	500)	650)	: ")		
9	4P / 2B / 2T / 2P+1B / 2P+1T / 1B+1T	40		550)	650)	E.00		
	5P / 1P+2B / 1P+2T / 3P+1B / 3P+1T / 1P+1B+1T	40	0	550	i	700)			
	0	35	o ;	550		800)	1200		
	1P	400	0	550		800		E - :0:10		
3000	2P / 1B / 1T	. 400	0	600		800		=		
:	3P / 1P+1B / 1P+1T	456	0	600		800)	E \$ 1000		
	4P / 2B / 2T / 2P+1B / 2P+1T / 1B+1T	450	0	600				1 1001		
	5P / 1P+2B : 1P+2T / 3P+1B : 3P+1T / 1P+18+1T									

Fc. mechanically latched TAN execution (see catalogue B), notice that distance "A" must be that corresponding to custactors with D.C. control plus one aux, contact besides those you need.

3360/101

Overall dimensions of contactors (mm.)

							-																					
	Type	D	rawing N.	В	С	D	E	F	Ġ	. н	1	L	Μ	N	0	P	0	R .	S	Τ	U .	٧	w	Ζ.	K	Bm*	ls*	Bo*
	N 46			10	55	70	15	90	6,5	20	85	37	38	28	28	28	14	-	-	-	-	-	-		-	200	130	-
,	N 60		1	10	55	80	15	95	6.5	20	90	37	38	28	28	28	14	-	-		-	-	_	-	-	200	130	- :
	N 85			12.5	60	105	35	120	8	60	130	55	50	46	40	33	18	-	-		18	-	M6	-	-	220	155	-
	N 125			12,5	60	115	35	120	8	60	130	55	50	46	40	44	18	-			18		MG		-	220	155	!
	N 190	55		12,5	70	135	40	130	8	60	150	60	60	48	42	49	18	~		-	20	-	M8	-	-	220	185	- 1
\rightarrow	N 270	- 10	2	13	95	170	45	170	8	80	195	60	70	57	50	55	18		-	-	25	-	M8		-	300	240	110
	N 350	1		13	95	180	45	170	8	80	200	60	70	57	50	65	18	-	-	-	25	-	M8		-	300	245	110
	N 550	1		13	105	195	70	190	8	80	230	70	90	70	52	70	18	-	-	-	40	-	M12	-	-	360	265	110
	N 650			13	120	200	70	190	8	80	230	70	90	70	52	75	18	-	_		40		M12		_	360	270	110
	N 800		2	35	120	245	75	225	8	100	300	80	100	70	47	85	18	25	18	117	50	***	M10	_	-	440	345	165
:	N 1000		3	35	120	245	75	225	8	100	300	80	100	70	47	. 85	18	25	18	117	50		M10		_	440	345	165
	N 1250		4	35	135	245	120	225	8	,100	300	80	110	25	30	100	18	15	30	105	15	10	M8	-		440	345	165
	N 1600		5	35	135				_	100				92	50	82	18	15	40	125	15	8	M10	10	50	500		100000
	N 2000			35	135	280	145	275	8	100	330	85	130	92	50	92	18	15	40	125	20	8	, M10	10	50	500	380	105
-	N 3000		6	35	135	280	195	275	8	100	330	105	170	92	50	133	18	15	40	125	20	8	M10	10	50	500	380	165

om - Distance needed for vertical mechanical interlock

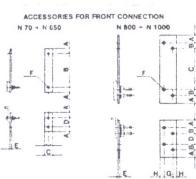
"s - Minimum clearance between contactor and earthed frame.

Overall dimensions of accessories (mm.)

1.4	ah	10	-	10
1	E4 (1)	116	- []	1.0

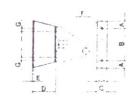
(Table n. 9)

	Туре	i	Drawing N.		Accessories for front connection										Accessories for plate mounting							
	HSS	1		A	В	C	D	E	F	G	Н	Α	В	C	D	. E	F	G				
	N 46/60			10	60	12	30	3	5.25	-	***	_	_	-	45	_	-	_	1			
, .	N 85			10	100	18	40	4	6.25	-		12.5	100	30	65	3	8	00				
	N 125			10	100	18	40	4	6.25			12.5	100	30	65	3	8	20				
_	N 190			10	100	20	40	4	8.25	-	-	12.5	100	30	80	3	8	20				
	N 270		.0	15	140	25	50	5	8 25	-		15	120	30	80	3	8	20				
	N 350			15	140	25	50	5	8.25	-		15	120	30	80	3	8	20				
	N 550			. 20	170	40	65	6	12.5	-		15	120	30	100	3	8	20				
	N 650			20	170	40	65	6	12.5	-	-	15	120	30	100	3	3	20	1			
	N 800			15	18	180	70	8	10.5	25	12.5	20	140	30	110	ü	10	2. 1				
_	N 1000			15	18	180	70	8	10.5	25	12.5	20	140	30	110	4	16	2)				



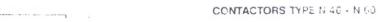
ACCESSORIES FOR PLATE MOUNTING

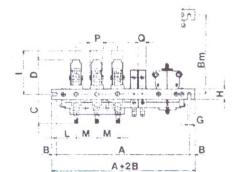
FOR N 70 - N 1000

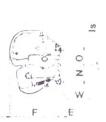


DRAWING 0 - ACCESSORIES

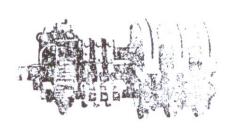


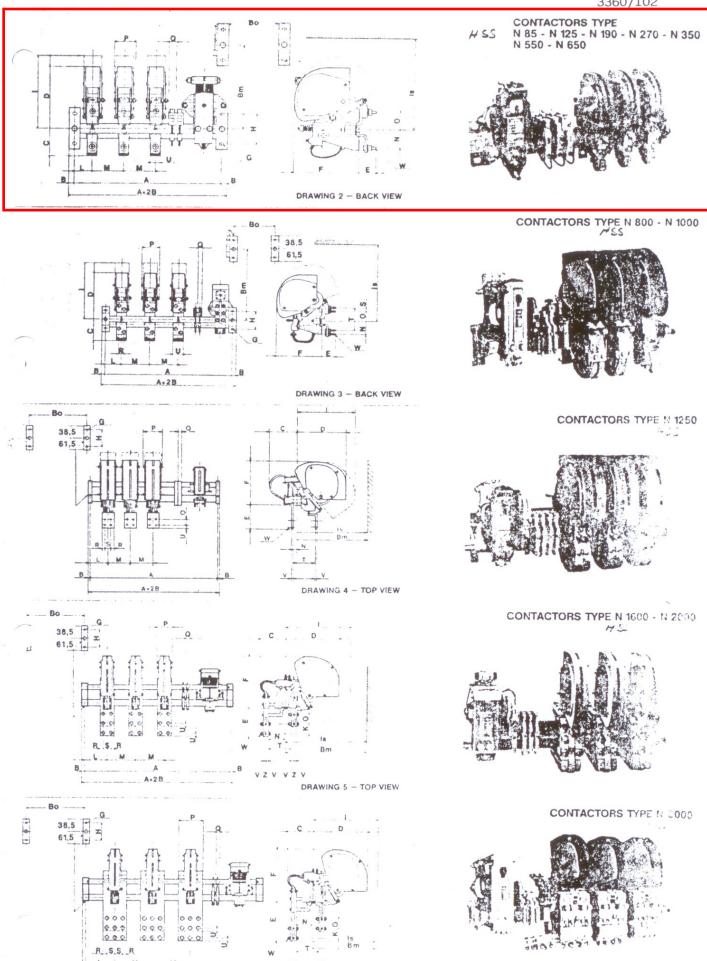






DRAWING 1 - BACK VIEW





DRAWING 6 - TOP VIEW