## **SIEMENS**

## Data sheet

## 3VA2040-7HM36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=1,5...12 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS CABLE CONNECTION

Model						
product brand name		SENTRON				
Product designation	_	Molded case circuit breaker				
Design of the product	-	Line protection				
Product variations		Selective Applications				
Ground fault monitoring version		Summation current formation L-conductor				
Design of the auxiliary release	_	without auxiliaryrelease				
Design of the auxiliary switch		Without				
Design of the operating mechanism		toggle handle				
Type of the driving mechanism / motor drive	_	No				
Design of the overcurrent release	-	ETU330				
General technical data						
Number of poles		3				
Trip class / of the L-trip / with I2t characteristic / initial value		0.5				
Trip class / of the L-trip / with I2t characteristic / Full- scale value	-	17				
Electrical endurance (switching cycles)	-					
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000				
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.1				
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3				
circuit-breaker / Design		3VA				
Mechanical service life (switching cycles) / typical		20 000				

Voltage		
Insulation voltage / Rated value	V	800
Protection class		
Protection class IP	_	IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	-	LIG
Switching capacity		
Switching capacity class of the circuit breaker		С
Dissipation		
Active power loss		
• maximum	W	2.2
Electricity		
Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	A	40
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
● at 40 °C / Rated value	А	40
● at 50 °C / Rated value	А	40
● at 60 °C / Rated value	A	40
• at 65 °C / Rated value	А	40
• at 70 °C / Rated value	А	40
Auxiliary circuit	_	
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• for G-tripping / with standard characteristic /	А	0.4
initial value		
<ul> <li>for G-tripping / with standard characteristic /</li> </ul>	А	1
Full-scale value		
<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
Adjustable response value current / of the current-	A	0.4
dependent overload release / initial value		

Product component     No       • display     No       • undervoltage release     No       Product propery     • of the circuit breaker with tripping unit / Tripping characteristic adjustable     Yes       • for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof     Yes       Product function     Yes       Product function     Yes       • Intrinsic device protection     Yes       • Intrinsic device protection     No       • Intrinsic device protection     No       • Ormmunication function     No       • Other measurement function     No       • Other measurement function     No       • at 240 V / Rated value     KA       • at 415 V / Rated value     KA       • at 420 V / Rated value     KA       • at 430 V / Rated value     KA       • at 440 V / Rated value	Product details		
elispinNoelispinyNoeundervoltage releaseNoProduct propertyof the circuit breaker with tripping unit / Tripping characteristic adjustableYese for neutral conductors / upgradeable/retrofittable / Short-circuit and overlead proofYesProduct expansion / optional / motor driveYesProduct functionYesProduct functionNoe for neutral conductors / upgradeable/retrofittable / Short-circuit and overlead proofYesProduct functionNoe formunication functionNoe thirnsic device protectionNoe ommunication functionNoe other measurement functionNoe other measurement functionNoe other measurement functionNoe other device protectionState State Sta	Product component		
undervoltage releaseNoProduct property• of the circult breaker with tripping unit / Tripping characteristic adjustableYes• of the circult breaker with tripping unit / Tripping characteristic adjustableNo• or neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct spansion / optional / motor driveYesProduct functionYes• ormunication functionNo• ohrer measurement functionNo• ohter measurement functionNo• ohter measurement functionShort-circuitShort circuitYesCreational short-circuit current breaking capacity ((s)Short-circuit current breaking capacity (ka)• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 450 V / Rated valueKA150• at 440 V / Rated valueKA </td <td>Trip indicator</td> <td></td> <td>No</td>	Trip indicator		No
Product progrey <ul><li>of the circuit breaker with tripping unit / Tripping  <ul><li>of reneutic conductors /          upgradeable/retrofittable / Short-circuit and          overload proof</li></ul></li><li>Product function</li><li>Product function</li><li>Intrinsic device protection  <ul><li>intrinsic device protection</li><li>intrinsic device protection</li><li>of reneutic adductors /  <ul><li>intrinsic device protection</li><li>intrinsic device protection</li><li>of or neutic adductor function</li><li>intrinsic device protection</li><li>of the supplied basic</li><li>witch</li><li>of the supplied basic</li><li>witch</li><li>Short circuit</li></ul></li><li>Constant of the supplied basic</li><li>witch</li><li>Short circuit</li><li>Constant of the supplied basic</li><li>at 240 V / Rated value</li><li>kA</li><li>150</li><li>at 240 V / Rated value</li><li>kA</li><li>at 500 V / Rated value</li><li>kA</li><li>at 500 V / Rated value</li><li>kA</li><li>at 415 V / Rated value</li><li>kA</li><li>at 4</li></ul></li></ul>	• display		No
• of the circuit breaker with tripping characteristic adjustableYes• for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Other measurement functionNo• other measurement functionNo• other measurement functionStort-circuit• other measurement functionKA• other measurement functionStort-circuit• other measurement functionStort-circuit• other measurement functionKA• other measurement functionKA<	<ul> <li>undervoltage release</li> </ul>		No
characteristic adjustable       interpretention         e for neutral conductors /       No         upgradeable/retrofitable / Short-circuit and       Yes         Product function       Yes         Product function       Yes         e for measurement function       No         e formasing of protection       Yes         e communication function       No         e other measurement function       No         other measurement function       State S	Product property	-	
Image additional of the second of the sec			Yes
Product function       Product function         Intrinsic device protection       No         icommunication function       No         Phase failure detection       No         other measurement function       No         Accessories       3VA2040-7HM36-0AA0         Short circuit       Strot circuit current breaking capacity (Ics)         • at 240 V / Rated value       kA       150         • at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       150         • at 690 V / Rated value       kA       150         • at 440 V / Rated value       kA       150         • at 690 V / Rated value       kA       150         • at 690 V / Rated value       kA       150         • at 440 V / Rated value       kA       150         • at 690 V / Rated value       kA       160         • at 690 V / Rated value       kA       110         • at 440 V / Rated value       kA       120         • at 440 V / Rated value       kA       120         • at 690 V / Rated value       kA       120         • at 450 V / Rated value       kA       2         Short-circuit current making capacity (tem)       4	upgradeable/retrofittable / Short-circuit and		No
Product function       Intrinsic device protection       Yes         • communication function       No         • Phase failure detection       No         • other measurement function       No         • other measurement function       No         Accessories       3VA2040-7HM36-0AA0         Manufacturer article number / of the supplied basic switch       3VA2040-7HM36-0AA0         Short circuit       Operational short-circuit current breaking capacity (los)         • at 240 V / Rated value       KA       150         • at 440 V / Rated value       KA       110         • at 440 V / Rated value       KA       110         • at 400 V / Rated value       KA       55         • at 690 V / Rated value       KA       50         • at 240 V / Rated value       KA       150         • at 400 V / Rated value       KA       2         Maximum short-circuit current breaking capacity (lou)       Image: table of	Product expansion / optional / motor drive		Yes
Product function       Intrinsic device protection       Yes         • communication function       No         • Phase failure detection       No         • other measurement function       No         • other measurement function       No         Accessories       3VA2040-7HM36-0AA0         Manufacturer article number / of the supplied basic switch       3VA2040-7HM36-0AA0         Short circuit       Operational short-circuit current breaking capacity (los)         • at 240 V / Rated value       KA       150         • at 440 V / Rated value       KA       110         • at 440 V / Rated value       KA       110         • at 400 V / Rated value       KA       55         • at 690 V / Rated value       KA       50         • at 240 V / Rated value       KA       150         • at 400 V / Rated value       KA       2         Maximum short-circuit current breaking capacity (lou)       Image: table of	Product function		
invalue of proteinNo• communication functionNo• Phase failure detectionNo• other measurement functionNo• other measurement functionSVA2040-7HM36-0AAOAccessoriesSVA2040-7HM36-0AAO• switchSVA2040-7HM36-0AAO• Short circuitSVA2040-7HM36-0AAO• other measurement functionSVA2040-7HM36-0AAO• other measurement functionKA•			
Phase failure detectionNo• other measurement functionNoAccessoriesManufacturer article number / of the supplied basic switchSVA2040-7HM36-0AA0Operational short-circuit current breaking capacity (tcs)Strutter• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 600 V / Rated valueKA2• at 600 V / Rated valueKA150• at 240 V / Rated valueKA2• at 600 V / Rated valueKA2• at 600 V / Rated valueKA150• at 440 V / Rated valueKA150• at 240 V / Rated valueKA2• at 600 V / Rated valueKA2• at 600 V / Rated valueKA150• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 410 V / Rated valueKA2• at 400 V / Rated valueKA330• at 400 V / Rated valueKA330• at 240 V / Rated valueKA242• at 415 V / Rated valueKA242• at 400 V / Rated valueKA242• at 400 V / Rated valueKA330• at 400 V / Rated valueKA330• at 400 V / Rated valueKA242• at 400 V	<ul> <li>Intrinsic device protection</li> </ul>		Yes
• other measurement functionNoAccessoriesSVA2040-7HM36-0AA0Manufacturer article number / of the supplied basic switchSVA2040-7HM36-0AA0Short circuitSVA2040-7HM36-0AA0Operational short-circuit current breaking capacity (lcs)SVA2040-7HM36-0AA0• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 400 V / Rated valueKA110• at 600 V / Rated valueKA150• at 600 V / Rated valueKA85• at 600 V / Rated valueKA150• at 600 V / Rated valueKA150• at 240 V / Rated valueKA150• at 600 V / Rated valueKA2Maximum short-circuit current breaking capacity (Icu)•• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA2• at 400 V / Rated valueKA2• at 600 V / Rated valueKA2• at 240 V / Rated valueKA330• at 240 V / Rated valueKA242• at 240 V / Rated valueKA242• at 240 V / Rated value	<ul> <li>communication function</li> </ul>		No
Accessories         Manufacturer article number / of the supplied basic switch       3VA2040-7HM36-0AA0         Short circuit       Short circuit current breaking capacity (ics)       at 240 V / Rated value         • at 240 V / Rated value       kA       150         • at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       110         • at 4500 V / Rated value       kA       55         • at 690 V / Rated value       kA       150         • at 240 V / Rated value       kA       10         • at 400 V / Rated value       kA       85         • at 690 V / Rated value       kA       150         • at 240 V / Rated value       kA       110         • at 240 V / Rated value       kA       150         • at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       2         Short-circuit current making capacity (Icm)       i         • at 690 V / Rated value       kA       2         Short-circuit current making capacity (Icm)       i         • at 400 V / Rated value       kA       2         Short-circuit current making capacity (Icm)       i <td><ul> <li>Phase failure detection</li> </ul></td> <td></td> <td>No</td>	<ul> <li>Phase failure detection</li> </ul>		No
Manufacturer article number / of the supplied basic switch       3VA2040-7HM36-0AA0         Short circuit       Operational short-circuit current breaking capacity (ics)       Image: Comparison of the supplied basic         • at 240 V / Rated value       kA       150         • at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       85         • at 690 V / Rated value       kA       2         Maximum short-circuit current breaking capacity (Icu)	<ul> <li>other measurement function</li> </ul>		No
Manufacturer article number / of the supplied basic switch       3VA2040-7HM36-0AA0         Short circuit       Operational short-circuit current breaking capacity (ics)       Image: Comparison of the supplied basic         • at 240 V / Rated value       kA       150         • at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       85         • at 690 V / Rated value       kA       2         Maximum short-circuit current breaking capacity (Icu)	Accessories	_	
switchImage: Constraint of the switch of the sw		_	3\/A2040-7HM36-0AA0
• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 500 V / Rated valueKA85• at 690 V / Rated valueKA2• at 690 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 690 V / Rated valueKA85• at 690 V / Rated valueKA30• at 690 V / Rated valueKA330• at 690 V / Rated valueKA330• at 690 V / Rated valueKA32• at 690 V / Rated valueKA330• at 415 V / Rated valueKA330• at 415 V / Rated valueKA324• at 415 V / Rated valueKA324• at 415 V / Rated valueKA324• at 440 V / Rated valueKA330• at 440 V / Rated valueKA342• at 440 V / Rated va	Short circuit Operational short-circuit current breaking capacity	-	
at 415 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA85• at 500 V / Rated valuekA2Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valuekA150• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA85• at 690 V / Rated valuekA85• at 690 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA187			
at 440 V / Rated valuekA110• at 440 V / Rated valuekA85• at 500 V / Rated valuekA2Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA2• at 440 V / Rated valuekA350• at 690 V / Rated valuekA85• at 690 V / Rated valuekA2• at 690 V / Rated valuekA10• at 690 V / Rated valuekA2• at 690 V / Rated valuekA10• at 690 V / Rated valuekA2• at 690 V / Rated valuekA10• at 690 V / Rated valuekA2• at 415 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA187	• at 240 V / Rated value	kA	150
<ul> <li>a t 10 V / Rated value</li> <li>at 500 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 690 V / Rated value</li> <li>kA</li> <li>2</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>kA</li> <li>150</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 440 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 500 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 690 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 400 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 500 V / Rated value</li> <li>kA</li> <li>2</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>kA</li> <li>330</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>242</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>242</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>330</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>242</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>310</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>310</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>310</li> <li>at 410 V / Rated value</li> <li>kA</li> <li>32</li> </ul>	● at 415 V / Rated value	kA	110
kA2Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valuekA150• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA110• at 450 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 450 V / Rated valuekA242• at 400 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 450 V / Rated valuekA242• at 450 V / Rated valuekA187	• at 440 V / Rated value	kA	110
Maximum short-circuit current breaking capacity (Icu)KA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)	• at 500 V / Rated value	kA	85
• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 400 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)	• at 690 V / Rated value	kA	2
• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (lcm)-• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA187	Maximum short-circuit current breaking capacity (Icu)	_	
• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)	• at 240 V / Rated value	kA	150
• at 500 V / Rated value       kA       85         • at 690 V / Rated value       kA       2         Short-circuit current making capacity (Icm)       -       -         • at 240 V / Rated value       kA       330         • at 415 V / Rated value       kA       242         • at 440 V / Rated value       kA       242         • at 450 V / Rated value       kA       242	• at 415 V / Rated value	kA	110
• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)·• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187	• at 440 V / Rated value	kA	110
Short-circuit current making capacity (lcm)         KA         330           • at 240 V / Rated value         kA         242           • at 415 V / Rated value         kA         242           • at 440 V / Rated value         kA         242           • at 500 V / Rated value         kA         187	● at 500 V / Rated value	kA	85
• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187	● at 690 V / Rated value	kA	2
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>kA 242</li> <li>kA 242</li> <li>kA 187</li> </ul>	Short-circuit current making capacity (Icm)		
<ul> <li>at 440 V / Rated value</li> <li>kA 242</li> <li>at 500 V / Rated value</li> <li>kA 187</li> </ul>	• at 240 V / Rated value	kA	330
• at 500 V / Rated value kA 187	• at 415 V / Rated value	kA	242
	• at 440 V / Rated value	kA	242
• at 690 V / Rated value kA 3	• at 500 V / Rated value	kA	187
	• at 690 V / Rated value	kA	3

Connections						
Arrangement of electrical connectors / for main		Front termin	al			
current circuit						
Type of connectable conductor cross-section						
<ul> <li>of the round conductor terminal / stranded</li> </ul>		1 x (6-120 m	nm²)			
Type of electrical connection / for main current circuit		Box termina	l			
Mechanical Design						
Height	mm	181				
Width	mm	105	105			
Depth	mm	107	107			
Mounting type		fixed mounti	fixed mounting			
Environmental conditions						
Ambient temperature						
<ul> <li>during operation / minimum</li> </ul>	°C	-25				
<ul> <li>during operation / maximum</li> </ul>	°C	70	70			
<ul> <li>during storage / minimum</li> </ul>	°C	-40	-40			
<ul> <li>during storage / maximum</li> </ul>	°C	80	80			
Certificates		<u> </u>				
Equipment marking						
• acc. to DIN EN 61346-2		Q				
• acc. to DIN EN 81346-2		Q				
General Product Approval	E	ИС	Declaration of Conformity	other		
		other	( 6	other		
			EG-Konf.			

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20407HM360AA0

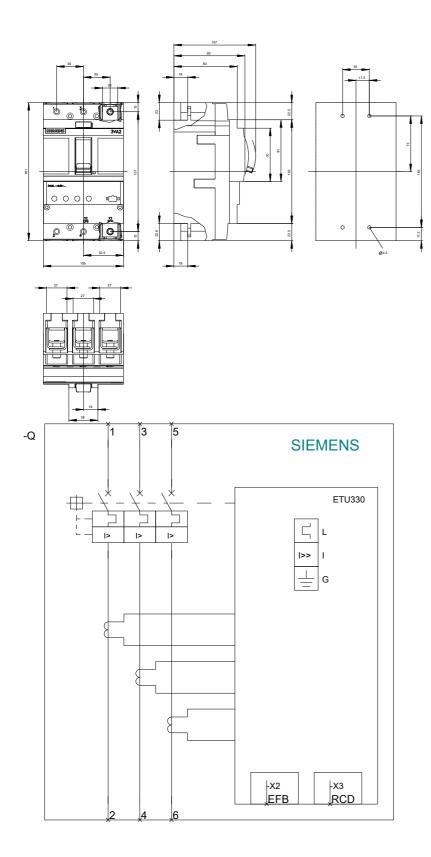
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407HM360AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA20407HM360AA0\_\_\_\_\_\_

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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